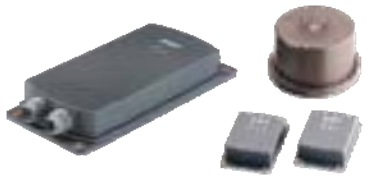
RFID Configuration Guide

SIEMENS

RF300

MOBY-D

RF600



MOBY-U

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RFID Configuration Guide

SIEMENS

Each SIMATIC RF Family has characteristics that orients it to a particular range of applications:

- The first step is to understand the application by asking the right questions. Out of this process, the best-suited SIMATIC RF family can be determined.
- A reader and tag combination within the specific family can be selected using the SIMATIC RF Family Matrix pages
- Within the chosen family, a network interface to the control system can be selected using the System Interfaces pages.

Technology	HF → UHF					
What is the basic RF technology?	**MOBY-I**	**MOBY-D**	**MOBY-E**	**RF 300**	**RF600**	**MOBY-U**
						
	1.81 MHz Passive	13.56 MHz Passive	13.56 MHz Passive	13.56 MHz Passive	868/915 MHz Passive	2.45 GHz Active

Read Distance	Shorter → Longer					
How far away can the tag be from the reader antenna system and still be seen?	**MOBY-E**	**MOBY-I**	**RF 300**	**MOBY-D**	**MOBY-U**	**RF600**
						
	100 mm	125 mm	210 mm	650 mm	3 meters	8 meters

Tag Memory	Less → More					
How many bytes Are required to be Stored on the tag?	**RF600**	**MOBY-E**	**MOBY-D**	**MOBY-I**	**MOBY-U**	**RF 300**
						
	216 bytes	756 bytes	992 bytes	32 Kbytes	32 kBytes	64 kByte

Metal Effects	Direct Mount → Spacer Mount					
Do tags and Reader need to be mounted on or around metal?	**MOBY-U**	**RF 300**	**RF600**	**MOBY-I**	**MOBY-D**	**MOBY-E**
						
	Direct Mount	Direct with Reduction	Direct with Reduction	Spacer Mount	Spacer Mount	Spacer Mount

Tag Dimensions	smallest → Largest					
What is the Smallest tag size available?	**MOBY-E**	**MOBY-D**	**RF 300**	**MOBY-I**	**RF600**	**MOBY-U**
						
	Ø10 x 4.5 mm	Ø16 x 3 mm	Ø27 x 4 mm	Ø27 x 9 mm	101 x 51 x 1 mm	111 x 67 x 23.5 mm

Environment	Lighter → Heavy					
What kind of environmental extremes will the tags be subjected to?	**MOBY-E**	**MOBY-D**	**RF600**	**MOBY-U**	**MOBY-I**	**RF 300**
						
	150°C IP67	200°C IP68	200°C IP68	220°C IP68	220°C IP68	220°C IP68

External Antenna	Yes → NO					
Is an antenna external to the reader required?	**MOBY-I**	**RF 300**	**MOBY-D**	**MOBY-E**	**RF600**	**MOBY-U**
						
	Some times	Some times	mostly	mostly	mostly	NO

Multi-tag Mode	Less → More					
Will there be more Than one tag in the RF field at a time?	**MOBY-I**	**MOBY-E**	**RF 300**	**MOBY-U**	**MOBY-D**	**RF600**
						
	1	1	RF300mode: 1 ISO mode: 4	12	30+	100+

Tag Speed	Slower → Faster					
How fast will the Tag be traveling through the RF Field?	**MOBY-D**	**MOBY-E**	**MOBY-I**	**RF 300**	**MOBY-U**	**RF600**
						
	110 bytes/sec	350 bytes/sec	1250 bytes/sec	3100 bytes/sec	4800 bytes/sec	5000 bytes/sec

Air Interface Protocol	Siemens → Standard					
Are there any requirements regarding the air interface protocol?	**MOBY-I**	**MOBY-U**	**RF 300**	**MOBY-E**	**MOBY-D**	**RF600**
						
	Siemens	Siemens	Siemens/ ISO 15693	ISO 14443	ISO 15693	EPCgen2

MOBY-D Family Matrix

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MOBY-D 13.56 MHz Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**Antennas** Note: Recommended spacer for ANT D5 is (6GT2 690-0AB00) Spacer adds 100mm to height of ANT D5	**D100** 6GT2 600-0AD10 112 Byte EEPROM -25°C to 80°C 85 x 54 x 0.76 IP68	**D200** 6GT2 600-1AD00 -0AX0 256 Byte EEPROM -20°C to 60°C 85 x 54 x 0.76 IP67	**D124** 6GT2 600-0AC10 112 Byte EEPROM -25°C to 180°C Ø 27 x 4 IP68	**D139** 6GT2 600-0AA10 112Byte EEPROM -25°C to 220°C Ø 85 x 15 IP68	**D160** 6GT2 600-0AB10 112 Byte EEPROM -25°C to 175°C Ø 16 x 3 IP68	**D165** 6GT2 600-1AB00-0AX0 112 Byte EEPROM -25°C to 85°C 85 x 54 x 0,3 IP65	**D261** 6GT2 600-1AA00-0AX0 256 Byte EEPROM -25°C to 85°C 55 x 55 x 0,3 IP65	**D324** 6GT2 600-3AC00 992 Byte EEPROM -25°C to 125°C Ø 27 x 4 IP67
SLG D10 ANT D5 **RS-232** 6GT2 698-1AA00 **SLG D10S ANT D5** **Use Communication Module** 6GT2 698-2AA00	**ANT D5** 6GT2 698-5AA00 340 x 325 x 38 w/o spacer kit	0-400/ 500 (0-15.75/ 19.68)	0-400/ 500 (0-15.75/ 19.68)	0-200/ 280 (0-7.90/ 11)	0-400/ 500 (0-15.75/ 19.68)	0-130/ 180 (0-5.11/ 7.09)	0-350/ 450 (0-13.78 / 17.72)	0-300/ 400 (0-11.81 / 15.74)	0-200/ 280 (0-7.87/ 11)
SLG D10 ANT D6 **RS-232** 6GT2 698-1AA00 **SLG D10S ANT D6** **Use Communication Module** 6GT2 698-2AA00	**ANT D6** 6GT2 698-5AB00 580 x 480 x 110	0-550/ 650 (0-21.65/ 25.59)	0-500/ 600 (0- 19.68 / 23.62)	0-220/ 300 (0-8.66/ 11.81)	0- 500/ 600 (0-19.68/ 23.62)	0- 130/ 180 (0-5.12/ 7.09)	0-400/ 500 (0-15.75 / 19.68)	0-350/ 400 (0-13.78 / 15.75)	0-200/ 280 (0-7.87/ 11.02)
SLG D10 ANT D10 **RS-232** 6GT2 698-1AA00 **SLG D10S ANT D10** **Use Communication Module** 6GT2 698-2AA00	**ANT D10** 6GT2 698-5AF00 1150 x 365 x 115	0-500/ 600 (0- 19.68 / 23.62)	0-450/ 550 (0-17.71/ 21.65)	0- 200/ 280 (0-7.87/ 11.02)	0- 400/ 500 (0-15.75/ 19.68)	0- 130/ 180 (0-5.11/ 7.08)	0-350/ 450 (0-13.77 / 17.71)	0- 300/ 400 (0-11.81 / 15.75)	0-200/ 280 (0-7.87/ 11.02)
SLG D11 ANT D2 **RS-232** 6GT2 698-1AC00, **SLG D11S ANT D2** **Use Communication Module** 6GT2 698-2AC00	**ANT D2** 6GT2 698-5BB00 75 x 75 x 40			45-70/ 90 (1.77-2.75/ 3.54)		35-55/ 65 (1.38-2.16/ 2.56)			35-60/ 70 (1.38-2.36/ 2.76)
SLG D11 ANT D5 **RS-232** 6GT2 698-1AC00 **SLG D11S ANT D5** **Use Communication Module** 6GT2 698-2AC00	**ANT D5** 6GT2 698-5AA00 340 x 325 x 38 w/o spacer kit	0- 300/ 380 (0-11.81/ 14.96)	0- 220/ 320 (0-8.66/ 12.60)	0- 150/ 220 (0-5.90/ 8.66)	0- 280/ 350 (0- 11.02/ 13.77)	0- 75/ 110 (0-2.95/ 4.33)	0-120/ 300 (0-4.72 / 11.81)	0-200/ 280 (0-7.87 / 11.02)	0- 120/ 160 (0- 4.72/ 6.29)
SLG D12 **RS-232** 6GT2 601-0AB00 **SLG D12S** **Use Communication Module** 6GT2 602-0AB10-0AX0 Optional: 6GT2 602-0AB00	**Integrated** 160 x 80 x 40	0- 160/ 220 (0- 6.29/ 8.66)	0- 120/ 150 (0- 4.72/ 5.90)	0- 70/ 100 (0-2.75/ 3.93)	0- 120/ 150 (0- 4.72/ 5.91)	0- 45/ 65 (0- 1.77/2.56)	0-120 150 (0-4.72 / 5.91)	0- 100/ 140 (0-3.93 / 5.51)	0- 60/ 80 (0- 2.36/ 3.15)
accessories		20mm spacer (6GT2 190-0AA00) Holder (6GT2 190-0AB00)	20mm spacer (6GT2 190-0AA00) Holder (6GT2 190-0AB00)		Spacer (6GT2 690-0AA0)				

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

MOBY-D Family Matrix

SIEMENS

MOBY-D 13.56 MHz Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**Antennas** Note: Recommended spacer for ANT D5 is (6GT2 690-0AB00) Spacer adds 100mm to height of ANT D5	**D424** 6GT2 600-4AC00 2kByte FRAM  -25°C to 85°C Ø 27 x 4 IP67	**D428** 6GT2 600-4AK00 2kByte FRAM  -25°C to 85°C Ø18 x 20 IP68/ X9K	**D460** 6GT2 600-4AB00 2kByte FRAM  -25°C to 175°C Ø 16 x 3 IP68/X9K
SLG D10 ANT D5 **RS-232** 6GT2 698-1AA00 **SLG D10S ANT D5** **Use Communication Module** 6GT2 698-2AA00 	**ANT D5**  6GT2 698-5AA00 160 x 80 x 40 w/o spacer kit	0-200/ 280 (0-7.87/ 11)	0-120/ 160 (0-4.72/ 6.30)	0-120/ 160 (0-4.72/ 6.30)
SLG D10 ANT D6 **RS-232** 6GT2 698-1AA00 **SLG D10S ANT D6** **Use Communication Module** 6GT2 698-2AA00 	**ANT D6**  6GT2 698-5AB00 580 x 480 x 110	0-220/ 300 (0-8.66/ 11.81)	0-100/ 150 (0-3.94/ 5.91)	0-100/ 150 (0-3.94/ 5.91)
SLG D10 ANT D10 **RS-232** 6GT2 698-1AA00 **SLG D10S ANT D10** **Use Communication Module** 6GT2 698-2AA00 	**ANT D10**  6GT2 698-5AF00 1150 x 365 x 115	0-200/ 280 (0-7.87/ 11)	0-100/ 150 (0-3.94/ 5.91)	0- 100/ 150 (0-3.94/ 5.91)
SLG D11 ANT D2 **RS-232** 6GT2 698-1AC00, **SLG D11S ANT D2** **Use Communication Module** 6GT2 698-2AC00 	**ANT D2**  6GT2 698-5BB00 75 x 75 x 40	45-70/ 90 (1.18-2.75/ 3.54)		30-50/ 60 (1.18-1.97/ 2.36)
SLG D11 ANT D5 **RS-232** 6GT2 698-1AC00 **SLG D11S ANT D5** **Use Communication Module** 6GT2 698-2AC00 	**ANT D5**  6GT2 698-5AA00 160 x 80 x 40 w/o spacer kit	0- 150/ 200 (0-5.91/ 7.87)	0- 70/ 100 (0-2.76/ 3.94)	0- 70/ 100 (0-2.76/ 3.94)
SLG D12 **RS-232** 6GT2 601-0AB00 **SLG D12S** **Use Communication Module** 6GT2 602-0AB10-0AX0 Optional: 6GT2 602-0AB00 	**Integrated** 160 x 80 x 40	0- 70/ 100 (0- 2.76/ 3.94)	0- 40/ 60 (0- 1.57/ 2.36)	0- 40/ 60 (0-1.57/ 2.36)
accessories				

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

MOBY-D System Interface

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S7- 300 Rack or
S7- 400 via ET 200M (DP-V1/PN-IO)

ASM 475 + Front Connector
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

A maximum of 2 SLGs may be connected

AMS 475 to SLG D12S

2m = 6GT2 891-0EH20 5m = 6GT2 891-0EH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A maximum of 2 SLGs may be connected

AMS 475 to SLG

5m = 6GT2 491-0EH50
20m = 6GT2 491-0EN20
50m = 6GT2 491-0EN50

PROFINET

M12 Connection Block
(6GT2 002-1JD00)
or
Push Pull RJ45
(6GT2 002-2JD00)

RF180C
Communication Module
(6GT2 002-0JD00)

A maximum of 2 SLGs may be connected

RF180C to SLG

2m = 6GT2 691-0FH20

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A maximum of 2 SLGs may be connected

RF180C to SLG D12S

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader
powered through connection cable

SLG D12S
(6GT2 602-0AB10-0AX0)

Reader
with external power supply

Wide-Range power supply

EU-version
(6GT2 898-0AA00)

UK-version
(6GT2 898-0AA10)

US-version
(6GT2 898-0AA20)

5m cable for 24V
(6GT2 491-1HH50)

SLG D10S
(6GT2 698-2AA00)

ANT D5
(6GT2 698-5AA00)
ANT D6
(6GT2 698-5AB00)
ANT D10
(6GT2 698-5AF00)

SLG D11S
(6GT2 698-2AC00)

ANT D2
(6GT2 698-5BB00)
ANT D5
(6GT2 698-5AA00)

SLG D12S
(6GT2 602-0AB00)

Reader
powered through connection cable

SLG D12S
(6GT2 602-0AB10-0AX0)

Tags

MDS D100
(6GT2 600-0AD00)
MDS D200
6GT2 600-1AD00 -0AX0

MDS D124
(6GT2 600-0AC10)
MDS 324
(6GT2 600-3AC00)
MDS 424
(6GT2 600-4AC00)

MDS D139
(6GT2 600-0AA00)
(6GT2 600-0AA10)

MDS D160
(6GT2 600-0AB00)
MDS D460
(6GT2 600-4AB00)

MDS D165
(6GT2 600-1AB00-0AX0)
MDS D261
(6GT2 600-1AA00-0AX0)

MDS D428
(6GT2 600-4AK00)

MOBY-D System Interface

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PROFIBUS DP-V1

ECOFAST Connection Block
(6ES7 194-3AA00-0AA0)
or
M12 Connection Block
(6ES7 194-3AA00-0BA0)

ASM 456
(6GT2 002-0ED00)

A maximum of 2 SLGs may be connected

ASM 456 to SLG D12S

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A maximum of 2 SLGs may be connected

ASM 456 to SLG

2m = 6GT2 691-0FH20

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET200pro PROFIBUS DP-V1 Interface Modul

ET200pro PROFINET Interface Modul

ET200pro PROFINET CPU module

Up to 9 x 170C modules per ET200pro rack

RF170C
Communication Module
(6GT2 002-0HD00)
Connection Block
(6GT2 002-1HD00)

A maximum of 2 SLGs may be connected

RF170C to SLG

2m = 6GT2 691-0FH20

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A maximum of 2 SLGs may be connected

RF 170C to SLG D12S

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A tool called SIMATIC ET 200 Configuration is available for configuring a complete ET200pro rack.
You will find the tool on the Internet at:
http://www.siemens.com/automation/service&support
Search for the entry with the number 22614936.

Reader

powered through connection cable

SLG D12S
(6GT2 602-0AB10-0AX0)

Reader

with external power supply

Wide-Range power supply

EU-version
(6GT2 898-0AA00)

UK-version
(6GT2 898-0AA10)

US-version
(6GT2 898-0AA20)

5m cable for 24V
(6GT2 491-1HH50)

SLG D10S
(6GT2 698-2AA00)

ANT D5
(6GT2 698-5AA00)
ANT D6
(6GT2 698-5AB00)
ANT D10
(6GT2 698-5AF00)

SLG D11S
(6GT2 698-2AC00)

ANT D2
(6GT2 698-5BB00)
ANT D5
(6GT2 698-5AA00)

SLG D12S
(6GT2 602-0AB00)

Reader

powered through connection cable

SLG D12S
(6GT2 602-0AB10-0AX0)

Tags

MDS D100
(6GT2 600-0AD00)
MDS D200
6GT2 600-1AD00 -0AX0

MDS D124
(6GT2 600-0AC10)
MDS 324
(6GT2 600-3AC00)
MDS 424
(6GT2 600-4AC00)

MDS D139
(6GT2 600-0AA00)
(6GT2 600-0AA10)

MDS D160
(6GT2 600-0AB00)
MDS D460
(6GT2 600-4AB00)

MDS D165
(6GT2 600-1AB00-0AX0)
MDS D261
(6GT2 600-1AA00-0AX0)

MDS D428
(6GT2 600-4AK00)

MOBY-D System Interface

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Ethernet/IP

Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

RFID 181EIP
Communication Module
(RFID181EIP (Canton))

A maximum of 2 SLGs may be connected

RF 181EIP to SLG D12S

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A maximum of 2 SLGs may be connected

RF 181EIP to SLG

2m = 6GT2 691-0FH20

And Extension Cables:
or basic cable for 6GT2 2602-0AB10-0AX0
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Ethernet TCP/IP

Ethernet TP cable through switch. See Page 33 for RF182C Cabling/ Connectors

Computers and non Siemens PLCs

RF182C
Communication Module
(6GT2 002-0JD10)

Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
Push Pull RJ45 (6GT2 002-2JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

A maximum of 2 SLGs may be connected

RF 180C to SLG

2m = 6GT2 691-0FH20

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A maximum of 2 SLGs may be connected

RF 180C to SLG D12S

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader

powered through connection cable

SLG D12S
(6GT2 602-0AB10-0AX0)

Reader

with external power supply

Wide-Range power supply

EU-version
(6GT2 898-0AA00)

UK-version
(6GT2 898-0AA10)

US-version
(6GT2 898-0AA20)

5m cable for 24V
(6GT2 491-1HH50)

SLG D10S
(6GT2 698-2AA00)

ANT D5
(6GT2 698-5AA00)
ANT D6
(6GT2 698-5AB00)
ANT D10
(6GT2 698-5AF00)

SLG D11S
(6GT2 698-2AC00)

ANT D2
(6GT2 698-5BB00)
ANT D5
(6GT2 698-5AA00)

SLG D12S
(6GT2 602-0AB00)

Reader

powered through connection cable

SLG D12S
(6GT2 602-0AB10-0AX0)

Tags

MDS D100
(6GT2 600-0AD00)
MDS D200
6GT2 600-1AD00 -0AX0

MDS D124
(6GT2 600-0AC10)
MDS 324
(6GT2 600-3AC00)
MDS 424
(6GT2 600-4AC00)

MDS D139
(6GT2 600-0AA00)
(6GT2 600-0AA10)

MDS D160
(6GT2 600-0AB00)
MDS D460
(6GT2 600-4AB00)

MDS D165
(6GT2 600-1AB00-0AX0)
MDS D261
(6GT2 600-1AA00-0AX0)

MDS D428
(6GT2 600-4AK00)

MOBY-D System Interface

SIEMENS

RS-232

PC to SLG Cable

5m = 6GT2 691-0BH50 20m = 6GT2 619-0BN20

1. **C++/C/VB API on SIMATIC RF CD**
2. **Open ASCII protocol**

Reader

with external power supply

Wide-Range power supply

EU-version
(6GT2 898-0AA00)

UK-version
(6GT2 898-0AA10)

US-version
(6GT2 898-0AA20)

5m cable for 24V
(6GT2 491-1HH50)

SLG D10
(6GT2 698-1AA00)

ANT D5
(6GT2 698-5AA00)
ANT D6
(6GT2 698-5AB00)
ANT D10
(6GT2 698-5AF00)

SLG D11
(6GT2 698-1AC00)

ANT D2
(6GT2 698-5BB00)
ANT D5
(6GT2 698-5AA00)

SLG D12
(6GT2 601-0AB00)

Tags

MDS D100
(6GT2 600-0AD00)
MDS D200
6GT2 600-1AD00 -0AX0

MDS D124
(6GT2 600-0AC10)

MDS D139
(6GT2 600-0AA00)
(6GT2 600-0AA10)

MDS D160
(6GT2 600-0AB00)

MDS D165
(6GT2 600-1AB00-0AX0)
MDS D261
(6GT2 600-1AA00-0AX0)

MDS 324
(6GT2 600-3AC00)

MOBY-E Family Matrix

SIEMENS

MOBY-E 13.56 MHz Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**Antennas**	**MDS E600** 6GT2 300-0AA00 752 Byte EEPROM  -25°C to 60°C 85.6 x 54 x 0.8 IP68	**MDS E610** 6GT2 300-0BB00 752 Byte EEPROM  -25°C to 75°C 85.8 x 54.8 x 2.5 IP67	**MDS E623** 6GT1 300-0CD00 752 Byte EEPROM  -25°C to 85°C Ø 10 x 4.5 IP67 / IPX9K	**MDS E624** 6GT2 300-0CE00 752 Byte EEPROM  -25°C to 125°C Ø 27 x 4 IP67 / IPX9K
SIM 70 W/ANT 0 6GT2 305-0AA00 	 Ø18 x 1 x 50			-**Metal Free** 0-6 / 6 (0-0.24 / 0,24) **Flush in Metal** 0-3.5 / 4 (0-0.14 / 0.16)	0-8 / 15 (0-0.31 / 0.59)
SIM 70 W/ANT 1 6GT 305-0AB00 	 75 x 75 x 20	0-50 / 70 (0-1.97 / 2.76)	20-70 / 100 (0.79-2.76 / 3.94)		0-25 / 40 (0-0.98 / 1.57)
ASM 724/754 with SLA 71 **6GT2 302-2CE00, ASM 424** **6GT2 302-2EE00, ASM 754** **6GT2 301-2BB00, SLA 71** 	 75 x 75 x 20	0-50 / 70 (0-1.97 / 2.76)	10-70 / 100 (0.39-2.76 / 3.94)		0-25 / 40 (0-0.98 / 1.57)
SLG 72 6GT2 301-0CA00 	**Integrated** 160 x 80 x 40	0-50 / 70 (0-1.97 / 2.76)	20-70 / 100 (0.79-2.76 / 3.94)		0-30 / 40 (0-1.18/ 1.57)
SIM 72 6GT2 305-0CA00 	**Integrated** 160 x 80 x 40	0-50 / 70 (0-1.97 / 2.76)	20-70 / 100 (0.79-2.76 / 3.94)		0-30 / 40 (0-1.18/ 1.57)
SLG 75 ANT 1 6GT2 398-1AF00, SLG75 6GT2 398-1CB00, ANT1 	 75 x 72 x 20	0-50 / 70 (0-1.97 / 2.76)	20-70 / 100 (0.79-2.76 / 3.94)		0-25 / 40 (0-0.98/ 1.57)
SLG 75 ANT 4 6GT2 398-1AF00, SLG75 6GT2 398-1CE00, ANT4 	 320 x 80 x 30	0-50 / 70 (0-1.97 / 2.76)	10-70 / 100 (0.39-2.76 / 3.94)		0-25 / 35 (0-0.98/ 1.38)
SLG 75 ANT 12 6GT2 398-1AF00, SLG75 6GT2 398-1CC00, ANT12 	 Ø12 x 1 x 40			-**Metal Free** 0-4 / 5 (0-0.16 / 0,20) **Flush in Metal** 0-3 / 4 (0-0.12 / 0.16)	

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

MOBY-E Family Matrix

SIEMENS

MOBY-E 13.56 MHz Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**Antennas**	**MDS E600** 6GT2 300-0AA00 752 Byte EEPROM  -25°C to 60°C 85.6 x 54 x 0.8 IP68	**MDS E610** 6GT2 300-0BB00 752 Byte EEPROM  -25°C to 75°C 85.8 x 54.8 x 2.5 IP67	**MDS E623** 6GT1 300-0CD00 752 Byte EEPROM  -25°C to 85°C Ø 10 x 4.5 IP67 / IPX9K	**MDS E624** 6GT2 300-0CE00 752 Byte EEPROM  -25°C to 125°C Ø 27 x 4 IP67 / IPX9K
SLG 75 ANT 18 6GT2 398-1AF00, SLG75 6GT2 398-1CA00, ANT18 	 Ø18 x 1 x 55			-**Metal Free** 0-6 / 6 (0-0.24 / 0,24) **Flush in Metal** 0-3.5 / 4 (0-0.14 / 0.16)	0-8 / 15 (0-0.31/ 0.59)
SLG 75 ANT 30 6GT2 398-1AF00, SLG75 6GT2 398-1CD00, ANT30 	 Ø30 x 1 x 40				0-18 / 24 (0-0.71/ 0.94)
accessories		**Holder (E600)** (6GT2 390-0AA00) **Holder (E600/E610)** (6GT2 190-0AB00) **spacer** (6GT2 190-0AA00)	**Holder (E600/E610** (6GT2 190-0AB00) **spacer** (6GT2 190-0AA00)		

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

MOBY-E System Interface

SIEMENS

S7- 300 Rack or
S7- 400 via ET 200M (DP-V1/PN-IO)

ASM 475 + Front Connector
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

A maximum of 2 SLGs may be connected

AMS 475 to Angled Connector on SLG
2m = 6GT2 091-0EH20 5m = 6GT2 091-0EH50
10m = 6GT2 091-0EN10 20m = 6GT2 091-OEN20
50m = 6GT2 091-OEN50

AMS 475 to Straight Connector on SLG
2m = 6GT2 091-2EH20 5m = 6GT2 091-2EH50
10m = 6GT2 091-2EN10 50m = 6GT2 091-2EN50

PROFIBUS DP-V1

ECOFAST Connection Block
(6ES7 194-3AA00-0AA0)
or
M12 Connection Block
(6ES7 194-3AA00-0BA0)

ASM 456
(6GT2 002-0ED00)

A maximum of 2 SLGs may be connected

ASM 456 to SLG
2m = 6GT2 091-0FH20
5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET200pro PROFIBUS DP-V1 Interface Modul

ET200pro PROFINET Interface Modul

ET200pro PROFINET CPU module

Up to 9 x 170C modules per ET200pro rack

RF170C
Communication Module
(6GT2 002-0HD00)
Connection Block
(6GT2 002-1HD00)

A maximum of 2 SLGs may be connected

RF170C to SLG
2m = 6GT2 091-0FH20
5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A tool called SIMATIC ET 200 Configuration is available for configuring a complete ET200pro rack.
You will find the tool on the Internet at:
http://www.siemens.com/automation/service&support
Search for the entry with the number 22614936.

PROFINET

M12 Connection Block
(6GT2 002-1JD00)
or
Push Pull RJ45
(6GT2 002-2JD00)

RF180C
Communication Module
(6GT2 002-0JD00)

A maximum of 2 SLGs may be connected

RF180C to SLG
2m = 6GT2 091-0FH20
5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader

SLG 72
(6GT2 301-0CA00)

SLG 75
6GT2 398-1AF00, SLG75

ANT 1
(6GT2 398-1CB00)
ANT 4
(6GT2 398-1CE00)
ANT 12
(6GT2 398-1CC00)
ANT 18
86GT2 398-1CA00)
ANT 30
(6GT2 398-1CD00)

Tags

MDS E600
(6GT2 300-0AA00)

MDS E611
(6GT2 300-0BB00)

MDS E623
(6GT2 300-0CD00)

MDS E624
(6GT2 300-0CE00)

MOBY-E System Interface

SIEMENS

Ethernet via PC

SIMATIC NET
PROFINET IO Base
or
PN-OPC Server

+ Ethernet TP cable through switch. See Page 32 for RF180C Cabling/ Connectors

+ **A maximum of 2 SLGs may be connected**

RF 180C to SLG

2m = 6GT2 091-0FH20
5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

DeviceNet

DeviceNet Basic Module
(DNH-200X-8DI) or
(DNH-200X-4D0)

+ up to 7 x ASM472 Modules per DNH200 rack

ASM 472
(6GT2 002-0FB00)

+ **A maximum of 1 SLGs may be connected**

ASM 472 to SLG to angled Connector on SLG

2m = 6GT2 091-1CH20 5m = 6GT2 091-1CH50
10m = 6GT2 091-1CN10 20m = 6GT2 091-1CN20
50m = 6GT2 091-1CN50

ASM 472 to SLG to Straight Connector on SLG

2m = 6GT2 091-2CH20

Ethernet/IP

RFID 181EIP
Communication Module
(RFID181EIP (Canton))

Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

+ **A maximum of 2 SLGs may be connected**

181EIP to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

RS-232

MOBY C/C++ API
On SIMATIC RF CD

RS232 Cable
5m = 6GT2 391-0BN50
20m = 6GT2 391-0BN20

+

ASM 424
(6GT2 002-2CE00)

ASM 724
(6GT2 302-2CE00)

Wide-Range power supply

EU-version (6GT2 898-0AA00)
US-version (6GT2 898-0AA20)
UK-version (6GT2 898-0AA10)

5m cable for 24V
(6GT2 491-1HH50)

+ **A maximum of 4 SLGs may be connected**

Connecting Cable

5m = 6GT2 091-0AH50 10m = 6GT2 091-0AN10
20m = 6GT2 091-0AN20 50m = 6GT2 091-0AN50

10m = 6GT2 091-2AN10 50m = 6GT2 091-2AN50

+ **A maximum of 4 SLA 71 may be connected**

Connecting Cable
5m = 6GT2 391-1AH50

+ **Optional Extension Cable**
10m = 6GT2 391-1BN10
25m = 6GT2 391-1BN25

+ **Plug-in power supply**
6GT2 090-0HB00

+ **RS 232 Connector w/ Power Pigtail and DI/DO Test Block**
5m = 6GT2 391-1DH50

Reader

SLG 72
(6GT2 301-0CA00)

SLG 75
6GT2 398-1AF00, SLG75

ANT 1
(6GT2 398-1CB00)
ANT 4
(6GT2 398-1CE00)
ANT 12
(6GT2 398-1CC00)
ANT 18
86GT2 398-1CA00)
ANT 30
(6GT2 398-1CD00)

SLA

SLA 71
6GT2 301-2BB00

Reader

SIM 70 W/ANT 0
(6GT2 305-0AA00)

SIM 70 W/ANT 1
6GT2 305-0AB00

SIM 72
6GT2 305-0CA00

Tags

MDS E600
(6GT2 300-0AA00)

MDS E611
(6GT2 300-0BB00)

MDS E623
(6GT2 300-0CD00)

MDS E624
(6GT2 300-0CE00)

MOBY-I Family Matrix

SIEMENS

MOBY-I 135 KHz 1.81 MHz Data Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**MDS 401** 6GT2 000-0CA10 8 kByte FRAM  -25°C to 85°C Ø 27 x 9 IP67	**MDS 402** 6GT2 000-0CA20 8 kByte FRAM  -25°C to 70°C 47.5 x 25 x 15 IP68	**MDS 403** 6GT2 000-0CF00 8 kByte FRAM -25°C to 85°C 47.5 x 25 x 15 IP68	**MDS 404** 6GT2 000-0EG00 8 kByte FRAM  -25°C to 85°C 50 x 50 x 20 IP68	**MDS 439E** 6GT2 000-0CD30-0AD0 8 kByte FRAM  -25°C to 220°C Ø 114 x 83 IP68	**MDS 506** 6GT2 000-0DC00-0AA0 32 kByte FRAM  -25°C to 70°C 75 x 75 x 40 IP68	**MDS 514** 6GT2 000-0DG10 32 kByte FRAM  -25°C to 85°C 50 x 50 x 20 IP68
SLG 40 6GT2 001-0EA10 	0-8 / 10 (0-0.31 / 0.39)	0-8 / 10 (0-0.31 / 0.39)					
SLG 40S 6GT 001-0EB00 	2-6 / 8 (0.08-0.24 / 0.31)	2-6 / 8 (0.08-0.24 / 0.31)					
SLG 41 **6GT2 001-0AA00** 	0-6 / 10 (0-0.24 / 0.39)	0-6 / 10 (0-0.24 / 0.39)	4-15 / 30 (0.16-0.59 / 1.18)	0-12 / 25 (0-0.47 / 0.98)			0-12 / 25 (0-0.47 / 0.98)
SLG 41S 6GT2 001-0AA00-0AX0 	0-6 / 10 (0-0.24 / 0.39))	0-6 / 10 (0-0.24 / 0.39)	4-15 / 30 (0.16-0.59 / 1.18)	0-12 / 25 (0-0.47 / 0.98)			0-12 / 25 (0-0.47 / 0.98)
SLG41C 6GT2 001-0AC0 	0-6 / 10 (0-0.24 / 0.39)	0-6 / 10 (0-0.24 / 0.39)	4-15 / 30 (0.16-0.59 / 1.18)	0-12 / 25 (0-0.47 / 0.98)			0-12 / 25 (0-0.47 / 0.98)
SLG 42 6GT2 001-0BA00 			10-30 / 80 (0.39-1.18 / 3.15)	0-30 / 60 (0-1.18/ 2.36)	10-55 / 70 (0.39-2.16/ 2.75)	10-35 / 70 (0.39-1.37/ 2.75)	0-30 / 60 (0-1.18/ 2.36)
SLG 43 6GT2 001-0CA10 				0-50 / 90 (0-1.97/ 3.54)	20-80 / 125 (0.78-3.14 / 4.92)	20-100 / 150 (0.78-3.93 / 5.90)	0-50 / 90 (0-1.97/ 3.54)
SIM 41 / 42 / 43 6GT2 005-0xA10 Where x = A (RS232) / B (RS422) / C (TTY) 			0-25 / 40 (0-0.98 / 1.57)	0-20 / 33 (0-0.79 / 1.30)	0-25 / 33 (0-0.98/ 1.30)	0-25 / 40 (0-0.98/ 1.57)	0-20 / 33 (0-0.79/ 1.30)

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

MOBY-I System Interface

SIEMENS

S7- 300 Rack or
S7- 400 via ET 200M (DP-V1/PN-IO)

ASM 475 + Front Connector
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

A maximum of 2 SLGs may be connected

AMS 475 to Angled Connector on SLG

2m = 6GT2 091-0EH20 5m = 6GT2 091-0EH50
10m = 6GT2 091-0EN10 20m = 6GT2 091-0EN20
50m = 6GT2 091-0EN50

ASM 475 to Straight Connector on SLG

2m = 6GT2 091-2EH20 5m = 6GT2 091-2EH50
10m = 6GT2 091-2EN10 50m = 6GT2 091-2EN50

PROFIBUS DP-V1

ECOFAST Connection Block
(6ES7 194-3AA00-0AA0)
or
M12 Connection Block
(6ES7 194-3AA00-0BA0)

ASM 456
(6GT2 002-0ED00)

A maximum of 2 SLGs may be connected

ASM 456 to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET200pro PROFIBUS DP-V1 Interface Modul

ET200pro PROFINET Interface Modul

ET200pro PROFINET CPU module

Up to 9 x 170C modules per ET200pro rack

RF170C
Communication Module
(6GT2 002-0HD00)
Connection Block
(6GT2 002-1HD00)

A maximum of 2 SLGs may be connected

RF170C to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A tool called SIMATIC ET 200 Configuration is available for configuring a complete ET200pro rack.
You will find the tool on the Internet at:
http://www.siemens.com/automation/service&support
Search for the entry with the number 22614936.

PROFINET

M12 Connection Block
(6GT2 002-1JD00)
or
Push Pull RJ45
(6GT2 002-2JD00)

RF180C
Communication Module
(6GT2 002-0JD00)

A maximum of 2 SLGs may be connected

RF180C to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader

powered through connection cable

SLG 40
(6GT2 001-0EA10)

SLG 40S
(6GT 001-0EB00)

SLG 41
(6GT2 001-0AA00)

SLG 41S
(6GT2 001-0AA00-0AX0)

SLG 41C
(6GT2 001-0AC00)

Direct connectable to AMS475, user connector box necessary to other communication modules

SLG 42
(6GT2 001-0BA00)

SLG 43
(6GT2 001-0CA10)

Tags

MDS 401
(6GT2 000-0CA10)

MDS 402
(6GT2 000-0CA20)

MDS 403
(6GT2 000-1CF20)

MDS 404
(6GT2 000-0EG00)

MDS 439E
(6GT2 000-0DC30-0AA0)

MDS 506
(6GT2 000-0DC00-0AA0)

MDS 514
(6GT2 000-0DG10)

MOBY-I System Interface

SIEMENS

Ethernet via PC

SIMATIC NET
PROFINET IO Base
or
PN-OPC Server

+

Ethernet TP cable through switch. See Page 32 for RF180C Cabling/ Connectors

+ A maximum of 2 SLGs may be connected +

RF 180C to SLG

2m = 6GT2 091-0FH20
5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

DeviceNet

DeviceNet Basic Module
(DNH-200X-8DI) or
(DNH-200X-4D0)

+ up to 7 x ASM472 Modules per DNH200 rack

ASM 472
(6GT2 002-0FB00)

+ A maximum of 1 SLGs may be connected +

ASM 472 to SLG to angled Connector on SLG

2m = 6GT2 091-1CH20 5m = 6GT2 091-1CH50
10m = 6GT2 091-1CN10 20m = 6GT2 091-1CN20
50m = 6GT2 091-1CN50

ASM 472 to SLG to Straight Connector on SLG

2m = 6GT2 091-2CH20

Ethernet/IP

RFID 181EIP
Communication Module
(RFID181EIP (Canton))

+ A maximum of 2 SLGs may be connected +

181EIP to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

RS-232

MOBY C/C++ API
On SIMATIC RF CD

RS232 Cable
5m = 6GT2 391-0BN50
20m = 6GT2 391-0BN20

+

ASM 424
(6GT2 002-2CE00)

Wide-Range power supply

EU-version (6GT2 898-0AA00) **US-version** (6GT2 898-0AA20)

UK-version
(6GT2 898-0AA10)

5m cable for 24V
(6GT2 491-1HH50)

+ A maximum of 4 SLGs may be connected +

ASM 424 to SLG

5m = 6GT2 091-0AH50 10m = 6GT2 091-1AN10
20m = 6GT2 091-1AN20 50m = 6GT2 091-AN50

Wide-Range power supply + 5m cable
6GT2 898-0AAxx + 6GT2 491-1HH50

+ **25pin submin-D Connector**
1 piece = 6AW5 418-4F
1 package (10 pcs.) = 6AW5 418-4FD

Reader

powered through connection cable

SLG 40
(6GT2 001-0EA10)

SLG 40S
(6GT 001-0EB00)

SLG 41
(6GT2 001-0AA00)

SLG 41S
(6GT2 001-0AA00-0AX0)

SLG 41C
(6GT2 001-0AC00)

Direct connectable to AMS475, user connector box necessary to other communication modules

SLG 42
(6GT2 001-0BA00)

SLG 43
(6GT2 001-0CA10)

SIM

SIM 41 / 42 / 43
6GT2 005-0xA10
Where x = A / B / C

Tags

MDS 401
(6GT2 000-0CA10)

MDS 402
(6GT2 000-0CA20)

MDS 403
(6GT2 000-1CF20)

MDS 404
(6GT2 000-0EG00)

MDS 439E
(6GT2 000-0DC30-0AA0)

MDS 506
(6GT2 000-0DC00-0AA0)

MDS 514
(6GT2 000-0DG10)

MOBY-U Family Matrix

SIEMENS

MOBY-U 2.45 GHz Active Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**MDS U315** 6GT2 500-3BF10 2 kByte Rplacable. battery  -25°C to 70°C 111 x 67 x 23,5 IP65	**MDS U524** 6GT2 500-5CE10 32 kByte  -25°C to 85°C 111 x 67 x 23,5 IP68	**MDS U525** 6GT2 500-5CF10 32 kByte Rplacable. battery  -25°C to 85°C 111 x 67 x 23,5 IP65	**MDS U589** 6GT2 500-5JK10 32 kBvte  -25°C to 85°C (up to +220°C) Ø 114 x 85 IP68	**MDS U Service** 6GT2 500-5BF20 32 kByte EEPROM  -25°C to 70°C 110 x 67 x 23,5 IP40
SLG U92 **RS232** **FCC Approval** 6GT2 501-1BA00 	150-3000 (5.91-118.11)	150-3000 (5.91-118.11)	150-3000 (5.91-118.11)	150-3000 (5.91-118.11)	150-3000 (5.91-118.11)
SLG U92 **RS422** **FCC Approval** 6GT2 501-0BA00 					
SLG U92 **RS232** **ETSI Approval** 6GT2 501-1CA00 	150-3000 (5.91-118.11)	150-3000 (5.91-118.11)	150-3000 (5.91-118.11)	150-3000 (5.91-118.11)	150-3000 (5.91-118.11)
SLG U92 **RS-422** **ETSI Approval** 6GT2 501-0CA00 					
accessories				**Skid holder** (6GT2 090-0QA00) **Cover for** **Skid holder** (6GT2 090-0QB00) **universal holder** (6GT2 590-0QA00)	

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

MOBY-U System Interface

SIEMENS

S7- 300 Rack or S7- 400 via ET 200M (DP-V1/PN-IO)

ASM 475 + Front Connector
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

A maximum of 2 SLGs may be connected

AMS 475 to Angled Connector on SLG

2m = 6GT2 091-0EH20 5m = 6GT2 091-0EH50
10m = 6GT2 091-0EN10 20m = 6GT2 091-0EN20
50m = 6GT2 091-0EN50

ASM 475 to Straight Connector on SLG

2m = 6GT2 091-2EH20 5m = 6GT2 091-2EH50
10m = 6GT2 091-2EN10 50m = 6GT2 091-2EN50

PROFIBUS DP-V1

ECOFAST Connection Block
(6ES7 194-3AA00-0AA0)
or
M12 Connection Block
(6ES7 194-3AA00-0BA0)

ASM 456
(6GT2 002-0ED00)

A maximum of 2 SLGs may be connected

ASM 456 to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET200pro PROFIBUS DP-V1 Interface Modul

ET200pro PROFINET Interface Modul

ET200pro PROFINET CPU module

Up to 9 x 170C modules per ET200pro rack

RF170C
Communication Module
(6GT2 002-0HD00)
Connection Block
(6GT2 002-1HD00)

A maximum of 2 SLGs may be connected

RF170C to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A tool called SIMATIC ET 200 Configuration is available for configuring a complete ET200pro rack.
You will find the tool on the Internet at:
http://www.siemens.com/automation/service&support
Search for the entry with the number 22614936.

PROFINET

M12 Connection Block
(6GT2 002-1JD00)
or
Push Pull RJ45
(6GT2 002-2JD00)

RF180C
Communication Module
(6GT2 002-0JD00)

A maximum of 2 SLGs may be connected

RF180C to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader

powered through connection cable

SLG U92 (RS-422)

6GT2 501-0BA00, FCC
6GT2 501-0CA00, ETSI

Tags

MDS U315
(6GT2 500-3BF10)

MDS U524
(6GT2 500-5CE10)

MDS U525
(6GT2 500-5CF10)

MDS 589
(6GT2 500-5JK10)

MDS U Service
(6GT2 500-5BF20)

MOBY-U System Interface

SIEMENS

Ethernet TCP/IP

Computers and non Siemens PLCs

Ethernet TP cable through switch. See Page 33 for RF182C Cabling/ Connectors

RF182C
Communication Module
(6GT2 002-0JD10)

Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
Push Pull RJ45 (6GT2 002-2JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

A maximum of 2 SLGs may be connected

RF 182C to SLG

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

DeviceNet

DeviceNet Basic Module
(DNH-200X-8DI) or
(DNH-200X-4D0)

up to 7 x ASM472 Modules per DNH200 rack

ASM 472
(6GT2 002-0FB00)

A maximum of 1 SLGs may be connected

ASM 472 to SLG to angled Connector on SLG

2m = 6GT2 091-1CH20 5m = 6GT2 091-1CH50
10m = 6GT2 091-1CN10 20m = 6GT2 091-1CN20
50m = 6GT2 091-1CN50

ASM 472 to SLG to Straight Connector on SLG

2m = 6GT2 091-2CH20

Ethernet/IP

RFID 181EIP
Communication Module
(RFID181EIP (Canton))

Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

A maximum of 2 SLGs may be connected

181EIP to SLG

2m = 6GT2 091-0FH20 5m = 6GT2 091-0FH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

RS-232

MOBY C/C++ API On SIMATIC RF CD

PC to SLG Cable

5m = 6GT2 591-1CH50 (w/ 5m reader Power Cable)
20m = 6GT2 591-1CN20 (w/ 5m reader power Cable)

U92 Service Interface Cable RS232 (11 pin SLG cable)
Service/ Diagnostics port exists on either RS-232 or Rs-422 version of the U92
5m = 6GT2 591-1AH50

Reader

powered through connection cable

SLG U92 (RS-422)
6GT2 501-0BA00, FCC
6GT2 501-0CA00, ETSI

Reader

with external power supply

Wide-Range power supply
EU-version
(6GT2 898-0AA00)
UK-version
(6GT2 898-0AA10)
US-version
(6GT2 898-0AA20)
5m cable for 24V
(6GT2 491-1HH50)

SLG U92 (RS-232)
6GT2 501-1BA00, FCC
6GT2 501-1CA00, ETSI

Tags

MDS U315
(6GT2 500-3BF10)

MDS U524
(6GT2 500-5CE10)

MDS U525
(6GT2 500-5CF10)

MDS 589
(6GT2 500-5JK10)

MDS U Service
(6GT2 500-5BF20)

RF300 Family Matrix

SIEMENS

RF300 13.56 MHz Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**Antennas**	**Suitable for Dynamic Operation**	**RF320T** 6GT2 800-1CA00 20 Byte EEPROM  -25°C to 125°C Ø 27 x 4 IP67 / IPX9K	**RF340T** 6GT2 800-4BB00 20 Byte EEPROM 8 kByte FRAM  -25°C to 85°C 48 x 25 x 15 IP68 / IPX9K	**RF350T** 6GT2 800-5BD00 20 Byte EEPROM 32 kByte FRAM  -25°C to 85°C 50 x 50 x 20 IP68	**RF360T** 6GT2 800-4AC00 20 Byte EEPROM 8 kByte FRAM  -25°C to 70°C 85,8 x 54,1 x 2,5 IP67	**RF370T** 20 Byte EEPROM 6GT2 800-5BE00 32 kByte FRAM 6GT2 800-6BE00 64 kByte FRAM  -25°C to 85°C 75 x 75 x 40 IP65	**RF380T** 6GT2 800-5DA00 20 Byte EEPROM 32 kByte FRAM  -25°C to 111°C (-25°C to 220°C) Ø 114 x 83 IP68
RF310R **IQ-Sense** 6GT2 801-0AA00 	**Integrated** 55 x 75 x 30	**YES**	2-10/ 16 (0.08-0.39/ 0.63)	2-20/ 26 (0.08-0.79/ 1.02)	5-22/ 30 (0.2-0.87/1.18)	5-26/ 35 (0.2-1.02/1.38)		
RF310R **RS-422** 6GT2 801-1AB10 					5-26/ 35 (0.2-1.02/1.38)			
RF340R 6GT2 801-2AB10 	**Integrated** 75 x 75 x 40	**YES**	2-20/ 25 (0.08-0.79/ 0.98)	5-25/ 35 (0.2-0.98/ 1.38)	5-35/ 50 (0.2-1,38/ 1.97)	8-40/ 60 (0.31-1.57/2.36)	15-36/ 52 (0.59-1.42/ 2.05)	15-47/ 55 (0.59-1.85/ 2.16)
RF350R ANT1 6GT2 801-4AB10, RF350R 6GT2 398-1CB00, ANT1 	 75 x 75 x 20	**YES**	2-20/ 25 (0.08-0.79/ 0.98)	5-25/ 35 (0.2-0.98/ 1.38)	5-35/ 50 (0.2-1,38/ 1.97)	8-40/ 60 (0.31-1.57/2.36)	15-45/ 65 (0.59-1.77/ 2.56)	15-53/ 65 (0.59-2.08/ 2.56)
RF350R ANT18 6GT2 801-4AB10, RF350R 6GT2 398-1CA00, ANT18 	 Ø18 x 1.0 x 55	**NO**	2-8/ 10 (0.08-0.31/ 0.39)	2-10/ 13 (0.08-0.39/ 0.51)				
RF350R ANT30 6GT2 801-4AB10, RF350R 6GT2 398-1CD00, ANT30 	 Ø30 x 1.5 x 58	**NO**	2-11/ 15 (0.08-0.43/ 0.59)	5-15/ 20 (0.2-0.59/ 0.79)	0-16/ 22 (0-0,63/ 0.87)			
RF380R 6GT2 801-3AB10 	**Integrated** 160 x 96 x 40	**YES**	2-40/ 55 (0.08-1.57/ 2.16)	20-80/ 100 (0.79-3.15/ 3.94)	35-100/ 130 (1.38-3.94/ 5.12)	40-120/ 150 (1.57-4.72/ 5.91)	35-100/ 135 (1.38-3.94/ 5.31)	25-110/ 140 (0.98-4.33/ 5.51)
accessories					Spare mount (6GT2 890-2AB10)	20mm spacer (6GT2 190-0AA00) Holder (6GT2 190-0AB00)		Holder: (short: 6GT2 090-0QA00) (long: 6GT2 090-0QA00-0AX3) Cover for holder: (6GT2 090-0QB00) All Purpose Support: (6GT2 590-0QA00)

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

RF300 Family Matrix (ISO tags)

SIEMENS

RF300 13.56 MHz Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**Antennas**	**D100** 6GT2 600-0AD10 112 Byte EEPROM -25°C to 80°C 85.6 x 54 x 0.76 IP68	**D200** 6GT2 600-1AD00-0AX0 256 Byte EEPROM -20°C to 60°C 85 x 54 x 0.76 IP67	**D139** 6GT2 600-0AA10 112Byte EEPROM -25°C to 200°C Ø 85 x 15 IP68	**D160** 6GT2 600-0AB10 112 Byte EEPROM -25°C to 175°C Ø 16 x 3 IP68	**D460** 6GT2 600-4AB00 2kByte FRAM -25°C to 175°C Ø 16 x 3 IP68/X9K	**D165** 6GT2 600-1AB00-0AX0 128 Byte EEPROM -25°C to 85°C 85 x 54 x 0,3 IP65	**D261** 6GT2 600-1AA00-0AX0 256 Byte EEPROM -25°C to 85°C 55 x 55 x 0,3 IP65
RF310R **RS-422** 6GT2 801-1AB10 	**Integrated** 55 x 75 x 30	2-78/ 90 (0.08-3.07/ 3.54)	2-78/ 90 (0.08-3.07/ 3.54)		2-25/ 37 (0.08-0.98/1.46)	2-20/ 30 (0.08-0.8/ 1.18)		
RF340R 6GT2 801-2AB10 	**Integrated** 75 x 75 x 40	15-110/ 140 (0.59-4.33/ 5.51)	15-110/ 140 (0.59-4.33/ 5.51)	10-80/ 110 (0.39-3.15/ 4.33)	2-35/ 60 (0.08-1.38/ 2.36)	2-25/ 40 (0.08-0.98/ 1.57)	8-30/ 40 (0.31-1.18/1.57)	15-30/ 40 (0.59-1.18/1.57)
RF350R ANT1 6GT2 801-4AB10, RF350R 6GT2 398-1CB00, ANT1 	 75 x 75 x 20	15-110/ 140 (0.59-4.33/ 5.51)	15-110/ 140 (0.59-4.33/ 5.51)	10-85/ 115 (0.39-3.35/ 4.53)	2-35/ 60 (0.08-1.38/ 2.36)	2-35/ 50 (0.08-1.38/ 1.97)	8-30/ 40 (0.31-1.18/1.57)	15-30/ 40 (0.59-1.18/1.57)
RF350R ANT12 6GT2 801-4AB10, RF350R 6GT2 398-1CC00, ANT12 	 Ø12 x 1.0 x 40				0-8/ 15 (0-0.31/ 0.59)	0-8/ 12 (0-0.31/ 0.47)		
RF350R ANT18 6GT2 801-4AB10, RF350R 6GT2 398-1CA00, ANT18 	 Ø18 x 1.0 x 55				0-18/ 27 (0-0.71/ 1.06)	0-12/ 18 (0-0.47/ 0.71)		
RF350R ANT30 6GT2 801-4AB10, RF350R 6GT2 398-1CD00, ANT30 	 Ø30 x 1.5 x 58			0-42/ 55 (0-1.65/ 2.17)	0-25/ 30 (0-0.98/ 1.18)	6-18/ 25 (0.24-0.71/ 0.98)		
RF380R 6GT2 801-3AB10 	**Integrated** 160 x 96 x 40	15-170/ 210 (0.59-6.69/ 8.27)	15-170/ 210 (0.59-6.69/ 8.27)	15-160/ 200 (0.59-6.30/ 7.87)	0-64/ 80 (0-2.52/ 3.15)	2-65/ 90 (0.08-3.56/ 3.54)	8-40/ 60 (0.31-1.57/2.36)	15-36/ 52 (0.59-1.42/ 2.05)
accessories		20mm spacer (6GT2 190-0AA00) Holder (6GT2 190-0AB00)	20mm spacer (6GT2 190-0AA00) Holder (6GT2 190-0AB00)	Spacer (6GT2 690-0AA0)				

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

RF300 Family Matrix (ISO tags)

SIEMENS

RF300 13.56 MHz Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**Antennas**	**D421** 6GT2 600-4AE00 2kByte FRAM  -25°C to 85°C Ø10 x 4,5 IP67/ X9K	**D428** 6GT2 600-4AK00 2kByte FRAM  -25°C to 85°C Ø18 x 20 IP68/ X9K	**D124** 6GT2 600-0AC10 112 Byte EEPROM  -25°C to 180°C Ø 27 x 4 IP67	**D324** 6GT2 600-3AC00 992 Byte EEPROM  -25°C to 125°C Ø 27 x 4 IP67	**D424** 6GT2 600-4AC00 2kByte FRAM  -25°C to 85°C Ø 27 x 4 IP67
RF310R **RS-422** 6GT2 801-1AB10 	**Integrated** 55 x 75 x 30		2-20/ 30 (0.08-0.79/ 1.18)	2-22/ 30 (0.08-0.87/ 1.18)	2-30/ 38 (0.08-1.18/ 1.5)	2-20/ 30 (0.08-0.79/ 1.18)
RF340R 6GT2 801-2AB10 	**Integrated** 75 x 75 x 40		2-35/ 50 (0.08-1.38/ 1.97)	2-55/ 80 (0.08-2.17/ 3.15)	2-55/ 70 (0.08-2.17/ 2.76)	2-50/ 70 (0.08-1.97/ 2.76)
RF350R ANT1 6GT2 801-4AB10, RF350R 6GT2 398-1CB00, ANT1 	 75 x 75 x 20	0-8/ 14 (0-0.31/ 0.55)	2-35/ 50 (0.08-1.38/ 1.97)	2-70/ 80 (0.08-2.76/ 3.15)	2-70/ 90 (0.08-2.76/ 3.54)	2-60/ 80 (0.08-2.36/ 3.15)
RF350R ANT12 6GT2 801-4AB10, RF350R 6GT2 398-1CC00, ANT12 	 Ø12 x 1.0 x 40	0-3/ 5 (0-0.12/ 0.20)	0-10/ 16 (0-0.39/ 0.63)			
RF350R ANT18 6GT2 801-4AB10, RF350R 6GT2 398-1CA00, ANT18 	 Ø18 x 1.0 x 55	0-6/ 8 (0-0.24/ 0.31)	0-10/ 14 (0-0.39/ 0.55)	0-24/ 35 (0-0.94/ 1.38)	0-22/ 28 (0-0.87/ 1.1)	0-27/ 35 (0-1.06/ 1.38)
RF350R ANT30 6GT2 801-4AB10, RF350R 6GT2 398-1CD00, ANT30 	 Ø30 x 1.5 x 58	0-6/ 12 (0-0.24/ 0.47)	0-25/ 34 (0-0.98/ 1.34)	0-35/ 46 (0-1.38/ 1.81)	0-35/ 45 (0-1.38/ 1.77)	0-40/ 45 (0-1.57/ 1.77)
RF380R 6GT2 801-3AB10 	**Integrated** 160 x 96 x 40		2-70/ 95 (0.08-2.76/ 3.74)	0-72/ 90 (0-2.84/ 3.54)	0-96/ 120 (0-3.78/ 4.72)	2-80/ 110 (0.08-3.15/ 4.33)
accessories						

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

RF300 System Interface

SIEMENS

S7- 300 Rack or S7- 400 via ET 200M (DP-V1/PN-IO)

8x IQ-Sense + Front Connector
(6ES7 338-7XF00-0AB0) + (6ES7 392-1AJ00-0AA0)

A maximum of 2 Readers may be connected

IQ-Sense to RF310R
5m = 3RX8 000-0CB42-1AF0
10m = 3RX8 000-0CB42-1AL0

ASM 475 + Front Connector
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

A maximum of 2 Readers may be connected

ASM 475 to RF3x0R

2m = 6GT2 891-0EH20 5m = 6GT2 891-0EH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader connector 90° angled: 2m = 6GT2 891-0JH20

PROFINET

M12 Connection Block
(6GT2 002-1JD00)
or
Push Pull RJ45
(6GT2 002-2JD00)

RF180C
Communication Module
(6GT2 002-0JD00)

A maximum of 2 SLGs may be connected

RF180C to RF3x0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader connector 90° angled: 2m = 6GT2 891-0JH20

PROFIBUS DP-V1

ECOFAST Connection Block
(6ES7 194-3AA00-0AA0)
or
M12 Connection Block
(6ES7 194-3AA00-0BA0)

ASM 456
(6GT2 002-0ED00)

A maximum of 2 SLGs may be connected

ASM 456 to RF3x0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader connector 90° angled
2m = 6GT2 891-0JH20

ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET200pro PROFIBUS DP-V1 Interface Modul

ET200pro PROFINET Interface Modul

ET200pro PROFINET CPU module

Up to 9 x 170C modules per ET200pro rack

RF170C
Communication Module
(6GT2 002-0HD00)
Connection Block
(6GT2 002-1HD00)

A maximum of 2 SLGs may be connected

RF170C to RF3x0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader connector 90° angled
2m = 6GT2 891-0JH20

A tool called SIMATIC ET 200 Configuration is available for configuring a complete ET200pro rack.
You will find the tool on the Internet at:
http://www.siemens.com/automation/service&support
Search for the entry with the number 22614936.

Reader

powered through connection cable

RF310R IQ Sense*
(6GT2 801-0AA00)
* not for ISO Tags

Reader

powered through connection cable

RF310R RS422
(6GT2 801-1AB10)

RF340R
(6GT2 801-2AB10)

RF350R
(6GT2 801-4AB10)

ANT 1
(6GT2 398-1CB00)
ANT 12
(6GT2 398-1CC00)
ANT 18
86GT2 398-1CA00)
ANT 30
(6GT2 398-1CD00)

RF380R
(6GT2 801-3AB10)

Tags

D100
(6GT2 600-0AD10)

D421
(6GT2 600-4AE00)

D460
(6GT2 600-4AB00)

D124
(6GT2 600-0AC10, 112Byte)
D324
(6GT2 600-3AC00, 1KByte)
D424
(6GT2 600-4AC00, 2KByte)
RF320T
(6GT2 800-1CA00, 20Byte)

D428
(6GT2 600-4AK00)

D139
(6GT2 600-0AA10)

RF340T
(6GT2 800-4BB00)

RF350T
(6GT2 800-5BD00)

RF360T
(6GT2 800-4AC00)

RF370T
(6GT2 800-5BE00, 32KByte)
(6GT2 800-6BE00, 64KByte)

RF380T
(6GT2 800-5DA00)

RF300 System Interface

SIEMENS

DeviceNet

DeviceNet Basic Module
(DNH-200X-8DI) or
(DNH-200X-4D0)

+ up to 7 x ASM472 Modules per DNH200 rack +

ASM 472
(6GT2 002-0FB00)

A maximum of 1 SLGs may be connected
ASM 472 to Reader +

2m = 6GT2 891-1CH20 5m = 6GT2 891-1CH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Ethernet TCP/IP

Computers and non Siemens PLCs

Ethernet TP cable through switch. See Page 33 for RF182C Cabling/ Connectors

+

RF182C
Communication Module
(6GT2 002-0JD10)

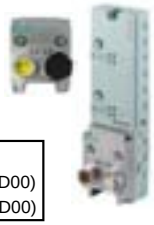
Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
Push Pull RJ45 (6GT2 002-2JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

+ **A maximum of 2 SLGs may be connected** +
RF 182C to RF3X0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Ethernet/IP

RFID 181EIP
Communication Module
(RFID181EIP (Canton))



Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

+ **A maximum of 2 SLGs may be connected** +
181EIP to RF3x0R

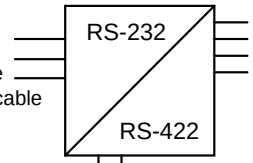
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Reader connector 90° angled
2m = 6GT2 891-0JH20

RS-232 / RS422

RF-MANAGER 2008 + SP1

Standard Female DB9 connector/cable on PC side



24Vdc
Interface Converter
(ie. TRP-C06 Trycom IP)

+ **A maximum of 1 Reader per COM port may be connected** +

DC +10V to +30V external Power supply +

Open Wire to RF6x0R
2m = 6GT2 891-0EH20
5m = 6GT2 891-0EH50

Reader connector 90° angled :
2m = 6GT2 891-0JH20

A maximum of 1 Reader per COM port may be connected

Wide-Range power supply + 5m cable + **RS 232 cable for RF380R**

6GT2 898-0AAxx + 6GT2 491-1HH50 **5m = 6GT2 821-0KH50**

Reader

powered through connection cable

RF310R RS422
(6GT2 801-1AB10)

RF340R
(6GT2 801-2AB10)

RF350R
(6GT2 801-4AB10)

ANT 1
(6GT2 398-1CB00)
ANT 12
(6GT2 398-1CC00)
ANT 18
86GT2 398-1CA00)
ANT 30
(6GT2 398-1CD00)

RF380R
(6GT2 801-3AB10)

Tags

D100
(6GT2 600-0AD10)

D421
(6GT2 600-4AE00)

D460
(6GT2 600-4AB00)

D124
(6GT2 600-0AC10, 112Byte)
D324
(6GT2 600-3AC00, 1KByte)
D424
(6GT2 600-4AC00, 2KByte)

RF320T
(6GT2 800-1CA00, 20Byte)

D428
(6GT2 600-4AK00)

D139
(6GT2 600-0AA10)

RF340T
(6GT2 800-4BB00)

RF350T
(6GT2 800-5BD00)

RF360T
(6GT2 800-4AC00)

RF370T
(6GT2 800-5BE00, 32KByte)
(6GT2 800-6BE00, 64KByte)

RF380T
(6GT2 800-5DA00)

RF600 Family Matrix

SIEMENS

RF600 865-868 MHz 902-928 MHz Passive Tags Operational Temperature Range Dimensions(L x W x D) mm Ingress Protection (IP) Rating	**Antennas**	**RF630L** 6GT2 810-2AB00 6GT2 810-2AB01 6GT2 810-2AB02 96 bits EPC Gen2 RFID Labels with different shape -40°C to 80°C IP65	**RF630L** 6GT2 810-2AB03 96 bits EPC Gen2 paper with RFID -40°C to 80°C 54 x 34 IP65	**RF610T** 6GT2 810-2BB80 96 bits EPC Gen2 -25°C to 70°C 86 x 54 x 0,9 IP67	**RF620T** 6GT2 810-2HC80 96 bits EPC Gen2 -25°C to 80°C 127 x 38 x 6 IP67	**RF630T** 6GT2 810-2EC00(ETSI) 6GT2 810-2EC10(FCC) 96/240 bits EPC Gen2 64 Byte -25°C to 85°C 19 x 22 x 32,3 IP68	**RF640T GEN2** 6GT2 810-2DC00(ETSI) 6GT2 810-2DC10 (FCC) 64 Bytes ISO 18000-6C -25°C to 85°C Ø 114 x 83 IP68	**RF640T** 6GT2 810-0DC00 (ETSI) 6GT2 810-0DC10 (FCC) 216 Bytes ISO 18000-6B -25°C to 85°C Ø 114 x 83 IP68	**RF680T** 6GT2 810-2HG80 96 bits EPC Gen2 64 Byte -25°C to 200°C 130 x 30 x 15 IP68 IPX9K
RF620R 6GT2 811-5BA00-0AA0 (ETSI) 6GT2 811-5BA00-1AA0 (FCC)	**Integrated** 260 x 193 x 52	**on cardboard** 4000 (157) **on wood, glass** 2000 (79)	**on cardboard** 1500 (59) **on wood, glass** 1000 (39)	**on cardboard** 2000 (79) **wood, glass** 1500 (59)	**on cardboard** 3000 (118) **on metal with distance holder** 2000 (157)	**on metal typical** 700 (27)	**on metal typical** 1500 up to 2500 (59 up to 98)		**on cardboard** 2000 **on metal typical** 2000
RF630R 6GT2 811-4AA00-0AA0 (ETSI) 6GT2 811-4AA00-1AA0 (FCC) Antennas: 6GT2 812-0AA00, RF660A (ETSI) 6GT2 812-1EA00, RF620A (ETSI) 6GT2 812-0AA01, RF660A (FCC, China) 6GT2812-1EA01, RF620A (FCC, China)	RF660A 313 x 313 x 80	**on cardboard** 6200 (244) **on wood, glass** 3100 (122)	**on cardboard** 2300 (91) **on wood, glass** 1500 (61)	**on cardboard** 3000 (118) **wood, glass** 2000 (79)	**on cardboard** 4600 (181) **on metal with distance holder** 3100 (122)	**on metal typical** 800 (31,5)	**on metal typical** 2300 up to 3900 (91 up to 153)		**on cardboard** 2000 **on metal typical** 2000
	RF620A 75 x 75 x 20	**on cardboard** 700 / 500	500 / 450	500 / 450	450 / 600	200 / 250	450 / 350		**on cardboard** 500 / 700 **on metal typical** 500 / 400
RF670R * 6GT2811-0AA00-0AA0 (ETSI) 6GT2811-0AA00-1AA0 (FCC) Antennas: 6GT2 812-0AA00, RF660A (ETSI) 6GT2 812-1EA00, RF620A (ETSI) 6GT2 812-0AA01, RF660A (FCC, China) 6GT2812-1EA01, RF620A (FCC, China)	RF660A 313 x 313 x 80	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support		Not yet available; Ask Siemens support
	RF620A 75 x 75 x 20	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support	Not yet available; Ask Siemens support		Not yet available; Ask Siemens support
RF660R 6GT2 811-0AA00 (spare part) 6GT2811-0AA01 (ETSI, FCC, China) Antennas: 6GT2 812-0AA00, RF660A (ETSI) 6GT2 812-1EA00, RF620A (ETSI) 6GT2 812-0AA01, RF660A (FCC, China) 6GT2812-1EA01, RF620A (FCC, China)	RF660A 313 x 313 x 80	**on cardboard** 8000 (315) **on wood, glass** 4000 (157)	**on cardboard** 3000 (118) **wood, glass** 2000 (79)	**on cardboard** 5000 (197) **wood, glass** 3000 (118)	**on cardboard** 6000 (236) **on metal with distance holder** 4000 (157)	**on metal typical** 1200 up to 1500 (47 up to 59)	**on metal typical** 3000 up to 5000 (181 up to 197)	**on metal typical** 1500 up to 2000 (59 up to 79)	**on cardboard** 4000 **on metal typical** 4000
	RF620A 75 x 75 x 20	**on cardboard** 1200 / 900	700 / 650	700 / 650	850 / 950	350 / 350	700 / 500	350 / 300	900 / 950 **on metal ypical** 900 / 600
accessories	Antenna mounting kit (RF660A) (6GT2 890-0AA00)			spacer (6GT2 190-0AA00) Holder (6GT2 190-0AB00)	spacer (6GT2 898-2AA00)				

*Planned 05/2010

typical maximum Distance ETSI / FCC variants (mm) and typical maximum Distance ETSI / FCC variants (inch)

RF600 System Interface

SIEMENS

S7- 300 Rack or S7- 400 via ET 200M (DP-V1/PN-IO)

ASM 475 + Front Connector
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

A maximum of 2 Readers may be connected

ASM 475 to RF6x0R

2m = 6GT2 891-0EH20 5m = 6GT2 891-0EH50

And Extension Cables:
2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

PROFIBUS DP-V1

ECOFAST Connection Block
(6ES7 194-3AA00-0AA0)
or
M12 Connection Block
(6ES7 194-3AA00-0BA0)

ASM 456
(6GT2 002-0ED00)

A maximum of 2 SLGs may be connected

ASM 456 to RF6x0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET200pro PROFIBUS DP-V1 Interface Modul

ET200pro PROFINET Interface Modul

ET200pro PROFINET CPU module

Up to 9 x 170C modules per ET200pro rack

RF170C
Communication Module
(6GT2 002-0HD00)
Connection Block
(6GT2 002-1HD00)

A maximum of 2 SLGs may be connected

RF170C to RF6X0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

A tool called SIMATIC ET 200 Configuration is available for configuring a complete ET200pro rack.
You will find the tool on the Internet at:
http://www.siemens.com/automation/service&support
Search for the entry with the number 22614936.

Reader

powered through connection cable

RF620R
6GT2 811-5BA00-0AA0, ETSI
6GT2 811-5BA00-1AA0, FCC

RF630R
6GT2 811-4AA00-0AA0, ETSI
6GT2 811-4AA00-1AA0, FCC

RF660A
(6GT2 812-0AA00, ETSI)
(6GT2 812-0AA01,
FCC, China)

Antenna Mounting kit
(6GT2 890-0AA00, RF660A)

RF620A
(6GT2812-1EA00, ETSI)
(6GT2812-1EA01,
FCC, China)

Antenna Cable
(3m = 6GT2 815-0BH30)
(10m = 6GT2 815-0BN10)
(20m = 6GT2 815-0BN20)

Labels

RF630L
(6GT2 810-2AB00)

6GT2 810-2AB01

(6GT2 810-2AB02)

(6GT2 810-2AB03)

Tags

RF610T
(6GT2 810-2BB80)

RF620T
(6GT2 810-2HC80)

RF630T
6GT2 810-2EC00(ETSI)
6GT2 810-2EC10(FCC)

RF640T Gen2
(6GT2 810-2DC00, ETSI)
(6GT2 810-2DC10, FCC)

RF680T
(6GT2 810-2HG80)

RF600 System Interface

SIEMENS

PROFINET

M12 Connection Block
(6GT2 002-1JD00)
or
Push Pull RJ45
(6GT2 002-2JD00)

+

RF180C
Communication Module
(6GT2 002-0JD00)

+ **A maximum of 2 SLGs may be connected** +

RF180C to RF6x0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Ethernet TCP/IP

Computers and non Siemens PLCs

Ethernet TP cable through switch. See Page 33 for RF182C Cabling/ Connectors

+

RF182C
Communication Module
(6GT2 002-0JD10)

+ **A maximum of 2 SLGs may be connected** +

RF 182C to RF6x0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
Push Pull RJ45 (6GT2 002-2JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

Ethernet/IP

RFID 181EIP
Communication Module
(RFID181EIP (Canton))

+ **A maximum of 2 SLGs may be connected** +

181EIP to RF6x0R

2m = 6GT2 891-0FH20 5m = 6GT2 891-0FH50
10m = 6GT2 891-0FN10 20m = 6GT2 891-0FN20
50m = 6GT2 891-0FN50

Connection Blocks:
M12, 7/8" – 5 pin power (6GT2 002-1JD00)
M12, 7/8"– 4 pin power (6GT2 002-4JD00)

RS-232 / RS422

RF-MANAGER 2008 + SP1

Standard Female DB9 connector/ cable on PC side

RS-232
RS-422

24Vdc

Interface Converter
(ie. TRP-C06 Trycom IP)

+ **A max of 1 Reader per COM port may be connected** +

DC +10V to +30V external Power supply

+ **Open Wire to RF6x0R**

2m = 6GT2 891-0EH20
5m = 6GT2 891-0EH50

Reader connector 90° angled :
2m = 6GT2 891-0JH20

Reader

powered through connection cable

RF620R
6GT2 811-5BA00-0AA0, ETSI
6GT2 811-5BA00-1AA0, FCC

RF630R
6GT2 811-4AA00-0AA0, ETSI
6GT2 811-4AA00-1AA0, FCC

RF660A
(6GT2 812-0AA00, ETSI)
(6GT2 812-0AA01,
FCC, China)

Antenna Mounting kit
(6GT2 890-0AA00, RF660A)

RF620A
(6GT2812-1EA00, ETSI)
(6GT2812-1EA01,
FCC, China)

Antenna Cable
(3m = 6GT2 815-0BH30)
(10m = 6GT2 815-0BN10)
(20m = 6GT2 815-0BN20)

Labels

RF630L
(6GT2 810-2AB00)

6GT2 810-2AB01

(6GT2 810-2AB02)

(6GT2 810-2AB03)

Tags

RF610T
(6GT2 810-2BB80)

RF620T
(6GT2 810-2HC80)

RF630T
6GT2 810-2EC00(ETSI)
6GT2 810-2EC10(FCC)

RF640T Gen2
(6GT2 810-2DC00, ETSI)
(6GT2 810-2DC10, FCC)

RF680T
(6GT2 810-2HG80)

RF600 System Interface

SIEMENS

Ethernet TCP/IP

RF670R Configuration Software on SIMATIC RF CD

Plus...

1. RF- MANAGER
2. Host Application as
   a, .NET client to RF-MANAGER
   b, direct-to-RF660R XML parser
   c, Off-the-shelf third-party RFID Middleware

RF 670R Ethernet Connection Cable
10m = 6GT2891-1HN50
(crossover cable – no switch required)

RF-MANAGER is a comprehensive fitering/reader management product that conforms to EPCglobal ALE specifications for supply chain management solutions. It is described more fully on page 29.

PLC via Ethernet

S7-315-2PN/DP
Or
S7-317-2PN/DP

RF 670R Ethernet Connection Cable
10m = 6GT2891-1HN50
(crossover cable – no switch required)

Native TCP functions (TCON, TSEND, TRCV, & TDOSCPM) utilizing on-board Ethernet port of PN processor

A sample S7 and WinCC project, along with Application Note, is available for free from the FAS Product Marketing team or can be downloaded from customer support

Reader

with external power supply

RF670R *
6GT2811-0AB00-0AA0, (ETSI)
6GT2811-0AB00-1AA0, (FCC)

1 to 4 antennas may be connected

RF660A
(6GT2 812-0AA00, ETSI)
(6GT2 812-0AA01, FCC)

Antenna Mounting kit
(6GT2 890-0AA00, RF660A)

RF620A
(6GT2812-1EA00, ETSI)
(6GT2812-1EA01, FCC)

Antenna Cable
(3m = 6GT2 815-0BH30)
(10m = 6GT2 815-0BN10)
(20m = 6GT2 815-0BN20)

Wide-Range power supply
EU-version
(6GT2 898-0AA00)
UK-version
(6GT2 898-0AA10)
US-version
(6GT2 898-0AA20)

5m cable for 24V
(6GT2 891-0NH50)

optional DI/DO cable 5m
6GT2891-0CH50

*Planned 05/2010

Labels

RF630L
(6GT2 810-2AB00)

6GT2 810-2AB01

(6GT2 810-2AB02)

(6GT2 810-2AB03)

Tags

RF610T
(6GT2 810-2BB80)

RF620T
(6GT2 810-2HC80)

RF630T
6GT2 810-2EC00(ETSI)
6GT2 810-2EC10(FCC)

RF640T Gen2
(6GT2 810-2DC00, ETSI)
(6GT2 810-2DC10, FCC)

RF680T
(6GT2 810-2HG80)

RF600 System Interface

SIEMENS

Ethernet TCP/IP

RF660R Configuration Software on SIMATIC RF CD

Plus...

1. RF- MANAGER
2. Host Application as
   a, .NET client to RF-MANAGER
   b, direct-to-RF660R XML parser
   c, Off-the-shelf third-party RFID Middleware

RF 660R Ethernet Connection Cable

10m = 6GT2 891-0HN10 20m = 6GT2 891-0HN20

Cross-over adapter or switch
(which provides cross-over) is required

RF-MANAGER is a comprehensive fitering/reader management product that conforms to EPCglobal ALE specifications for supply chain management solutions. It is described more fully on page 29.

RS-232

RF660R Configuration Software on SIMATIC RF CD

Plus...

1. RF- MANAGER
2. Host Application as
   a, .NET client to RF Manager
   b, direct-to-RF660R XML parser
   c, Off-the-shelf third-party RFID Middleware

RF 660R RS-232 Connection Cable

5m = 6GT2 891-0GH50 10m = 6GT2 891-0GN10

PLC via Ethernet

S7-315-2PN/DP
Or
S7-317-2PN/DP

RF 660R Ethernet Connection Cable

10m = 6GT2 891-0HN10 20m = 6GT2 891-0HN20

Cross-over adapter or switch
(which provides cross-over) is required

Native TCP functions (TCON, TSEND, TRCV, & TDOSCPM) utilizing on-board Ethernet port of PN processor

A sample S7 and WinCC project, along with Application Note, is available for free from the FAS Product Marketing team or can be downloaded from customer support

Reader

with external power supply

Wide-Range power supply

EU-version
(6GT2 898-0AA00)

UK-version
(6GT2 898-0AA10)

US-version
(6GT2 898-0AA20)

5m cable for 24V
(6GT2 491-1HH50)

RF660R
6GT2 811-0AA00
6GT2 811-0AA01,
(ETSI, FCC, China)

2 to 4 antennas may be connected

RF660A
(6GT2 812-0AA00, ETSI)
(6GT2 812-0AA01, FCC)

Antenna Mounting kit
(6GT2 890-0AA00, RF660A)

RF620A
(6GT2812-1EA00, ETSI)
(6GT2812-1EA01, FCC)

Antenna Cable
(3m = 6GT2 815-0BH30)*
(10m = 6GT2 815-0BN10)
(20m = 6GT2 815-0BN20)

optional DI/DO cable 5m
3RX8000-0CD81-1GF0

*** cable not approved for FCC**

Labels

RF630L
(6GT2 810-2AB00)

6GT2 810-2AB01

(6GT2 810-2AB02)

(6GT2 810-2AB03)

Tags

RF610T
(6GT2 810-2BB80)

RF620T
(6GT2 810-2HC80)

RF630T
6GT2 810-2EC00(ETSI)
6GT2 810-2EC10(FCC)

RF640T
6GT2 810-0DC0 0 (ETSI)
6GT2 810-0DC10 (FCC)

RF640T Gen2
(6GT2 810-2DC00, ETSI)
(6GT2 810-2DC10, FCC)

RF680T
(6GT2 810-2HG80)

SIMATIC RF Handhelds

SIEMENS

STG Handhelds

Packaged Systems include Handheld unit, RFID read/ write head, and battery

MOBY-D	STG D	6GT2 603-0AA10
MOBY-E	STG E	6GT2 303-0AA10
MOBY-I	STG I	6GT2 003-0CA10

Spare Parts		Additional Components	
Handheld Base	6GT2 003-0AA10	Docking/ Charging Unit	6GT2 898-0BA00
Spare Battery	6GT2 898-0CA00		
MOBY-D R/W Head	6GT2 603-1AA10		
MOBY-I R/W Head	6GT2 003-1CA00		
MOBY-E R/W Head	6GT2 303-1AA00		

Moby-U Handheld

Packaged Systems include Handheld unit, RFID read/ write antenna, EEPROM card, and battery

MOBY-U	STG U	6GT2 503-0AA00

Spare Parts		Additional Components	
MOBY-U R/W Antenna	6GT2 503-1AA00	Power Supply Unit	6GT2 503-1DA00

RF Handhelds

Packaged Systems include Handheld unit, RFID read/ write head, and battery

RF300	RF310M	6GT2 803-0AB00
RF600	RF610M	6GT2 813-0AB00 (ETSI)
RF600	RF610M	6GT2 813-0AB10 (FCC)

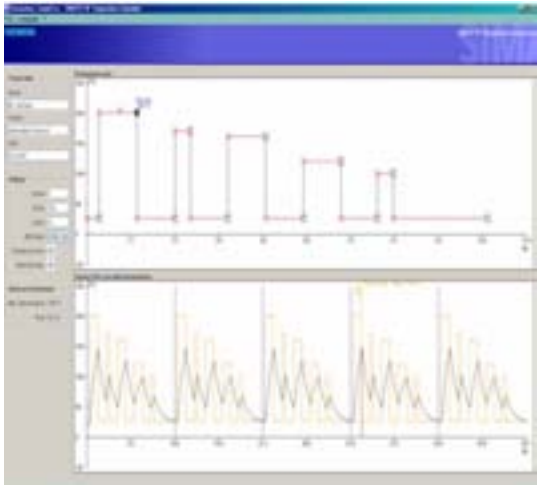
Spare Parts		Additional Components	
Spare Battery	6GT2 898-0CA00	Docking/ Charging Unit	6GT2 898-0BA00
		Barcode Scanner with pistol grip	6GT2 898-0DB00
		WLAN module	6GT2 898-0DA00

SIMATIC RF Software CD

SIMATIC RF CD
6GT2 080-2AA10

SIMATIC RF Software CD contains:

- Complete manual set
- S7 FC/FBs for MOBY D/E/I/U & RF300
- MOBY D/E/I/U/RF300 PC Application Programming Libraries (APIs)
- Visual Basic modules for MOBY-D
- Sample programs
- MOBY PC demo program
- RF660R Configuration Software
- Tag temperature calculation software
- MOBY-U diagnosis software
- S7 ASM Object Manager for Step 7
- Profibus GSD files
- Tool for data throughput calculation



SIMATIC RF-MANAGER Software

SIEMENS

For use with RF600 and RF300 systems. RF-MANAGER is a comprehensive filtering, reporting and reader management product that conforms to EPCglobal ALE specifications for supply chain management solutions.
With service pack 1 it supports RF310M, RF310R, RF340R, RF350R, RF380R, RF610M, RF620R, RF630R and RF660R

RF-MANAGER

RF-MANAGER 2008 CD Includes:

- RF-MANAGER engineering system
- RF-MANAGER Runtime
- Automation License Manager
- RF-MANAGER Documentation Set
- Getting Started Project
- ALE .NET Demo Client
- RF660R Configuration Software

Software Packages	
RF-MANAGER 2008 complete – 1 reader	6GT2 080-3CA00-8AA5
RF-MANAGER 2008 complete – 5 reader	6GT2 080-3CC00-8AA5
RF-MANAGER 2008 complete – 20 reader	6GT2 080-3CE00-8AA5
RF-MANAGER 2008 complete – 50 reader	6GT2 080-3CG00-8AA5
RF-MANAGER 2008 Upgrade – 1 reader	6GT2 080-3CA00-8AE5
RF-MANAGER 2008 Upgrade – 5 reader	6GT2 080-3CC00-8AE5
RF-MANAGER 2008 Upgrade – 20 reader	6GT2 080-3CE00-8AE5
RF-MANAGER 2008 Upgrade – 50 reader	6GT2 080-3CG00-8AE5
multiple reader packages can be added to another installed multiple reader package	
Service pack 1: **Download at http://support.automation.siemens.com**	

SIMATIC RF-MANAGER Software

SIEMENS

Enterprise-System

Ethernet

ALE- Client

Ethernet

SIMATIC S7

Profibus/ Ethernet

RF-MANAGER 2008

with Service Pack 3 *

WLAN

RF610M

6GT2 813-0AB00 (ETSI)
6GT2 813-0AB10 (FCC)

Interface Converter RS422/ RS232 page 26

RF620R

6GT2 811-5BA00-0AA0, ETSI
6GT2 811-5BA00-1AA0, FCC
6GT2811-5BA00-2AA0, Chin)

RF630R

6GT2 811-4AA00-0AA0, ETSI
6GT2 811-4AA00-1AA0, FCC
6GT2811-4AA00-2AA0, China

TCP/ IP page 24

RF660R

(6GT2 811-0AA00, ETSI/ FCC, nur Ersatz)
(6GT2 811-0AA01, ETSI/FCC/China)

RF670R *

6GT2811-0AB00-0AA0, (ETSI)
6GT2811-0AB00-1AA0, (FCC)
6GT2811-0AB00-2AA0 (China)

WLAN

RF310M

6GT2 803-0AB00

Interface Converter RS422/RS232 page 22

RF310R

(6GT2 801-1AB10)

RF340R

(6GT2 801-2AA10)

RF350R

(6GT2 801-4AA10)

Connection cable

RF380R

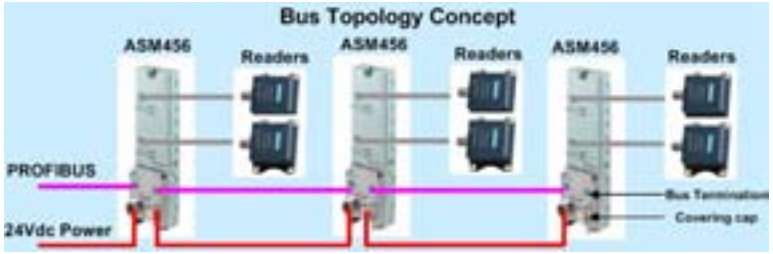
(6GT2 801-3AB10)

*Planned 05/2010

ASM456 Bill of Materials Guide

SIEMENS

The ASM456 is a PROFIBUS interface module that can have one of two connecting blocks plugged into it: either ECOfast block (shown on the left in the photo) or the M12 block (shown on the right in the photo). Note that if an M12 block is chosen, a separate power supply cable with 7/8" connector must be included to power the block. After selecting a connector module, the designer chooses whether to purchase pre-made network cables or to make his/her own. Note that another design consideration is whether the ASM456 is a PROFIBUS end-node or not. If it is an end-node, a Termination Resistor is required.



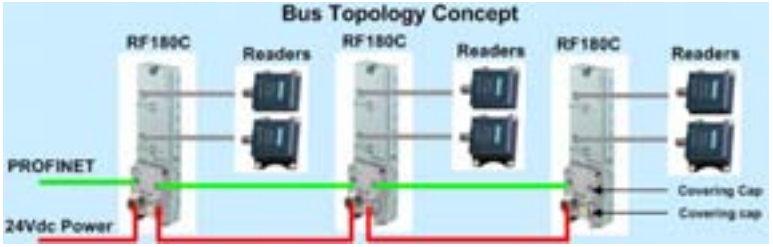
Description	Part Number	Notes
ASM456 Base	6GT2 002-0ED00	For PROFIBUS DVP1 networks. 2 read/write devices or readers can be connected
Choose the connecting Block Type		
M12-7/8" Connecting Block	6ES7 194-3AA00-0BA0	M12 connectors as opposed to the ECOfast type. Both types are available for the ASM456
ECOfast Connecting Block	6ESS7 194-3AA00-0AA0	ECOfast connectors as opposed to the M12 type. Both types are available for the ASM456
Make your own M12 PROFIBUS Connection Cables		
PROFIBUS M12 connector plug (5 per pack) With Socket insert	6GK1 905-0EB00	For the supply side of the PROFIBUS network. Use term. resistor on the 2nd M12 port if ASM456 is an end node
PROFIBUS M12 connector plug (5 per pack) With Pin insert	6GK1 905-0EA00	For loop-through side of the PROFIBUS network. Both ports are used. No term. resistor needed for that ASM456
POFIBUS Standard Non-assembled Cable	6XV1 830-0EH10	Sold by the meter Minimum length 20m Maximum length 10000m
M12 termination resistor for PROFIBUS (5 per pack)	6GK1 905-OE00	Required if ASM456 is an end-node
Use Pre-Made M12 PROFIBUS Connection Cables		
PROFIBUS cable with pre-Assembled M12 connectors	6XV1 830-3Dxxx*	See Online Mall (http://mall.automation.siemens.com) Lengths available from 0.5m up to15m
M12 termination resistor for PROFIBUS (5 per Pack)	6GK1 905-0EC00	Required if ASM456 is an end-node
Make Your Own ECOfast PROFIBUS Connection Cables		
PROFIBUS ECOfast connector Plug (5 per pack) With Socket insert	6GK1 905-0CB00	For the supply side of the PROFIBUS network. Use term. resistor on the 2nd ECOfast port if ASM456 is an end node
PROFIBUS ECOfast connector plug (5 per pack) With Pin insert	6GK1 905-0CA00	For loop-through side of the PROFIBUS network. Both ports are used. No term. resistor needed for that ASM456
ECOfast Hybrid (both power and comm) Non-Assembled Cable	6XV1 830-7AH20 6XV1 830-7AN50 6XV1 830-7AT100	Sold by the meter (6XV1830-7AH10) Or 20m (-7AH20), 50m (-7AN50), 100m (-7AT100)
ECOfast termination resistor for PROFIBUS (1 per pack)	6GK1 905-0DA10	Required if ASM456 is an end-node
Use Pre-Made ECOfast PROFIBUS connection Cables		
PROFIBUS cable with pre-Assembled ECOfast connectors	6XV1 830-7Bxxx*	See Online Mall (http://mall.automation.siemens.com) Lengths available from 0.5m up to 50m

Description	Part Number	Notes
Make your own 7/8" Power Supply Connection Cables		
For power to each comm module, standard 4 conductor TO cable can be used with 7/8" connectors		
Connector plug 7/8" for voltage (5 per pack) with Socket Insert	6GK1 905-0FB00	For the supply side of the 24Vdc power (required for M12 connection blocks only)
Connector plug 7/8" for voltage (5 per pack) with Pin Insert	6GK1 905-0FA00	For the loop- trough of 24Vde power (required for M12 connection blocks only)
Use Pre-Made 7/8" Power Supply Connection Cables		
Cable for supply voltage with pre-assembled 7/8" connectors	6XV1 822-5Bxxx*	See Online Mall (http://mall.automation.siemens.com) Lengths available from 0.5m up to 15m
Make your own ASM to Moby/RF Reader Cables		
Refer to the Bulk Cable and Connectors Tables (Pages 35 36)		
Use Pre-Made ASM to MOBY/RF Reader Cables		
Reader Cable MOBY E/I/U; 2m	6GT2 091-0FH20	MOBY-E, MOBY-I, and MOBY-U readers
Reader Cable MOBY E/I/U; 5m	6GT2 091-0FH50	MOBY-E, MOBY-I, and MOBY-U readers
Reader Cable MOBY D; 2m (Without reader 6GT2 602-0AB10-0AX0)	6GT2 691-0FH20	MOBY-D readers
Reader cable RF300/ RF600 or Extension cable for RF300 / MOBY D/E/I/U or reader cable for 6GT2 602-0AB10-0AX0	6GT2 891-0FH20	2 meter pre-assembled cable
	6GT2 891-0FH50	5 meter pre-assembled cable
	6GT2 891-0FN10	10 meter pre-assembled cable
	6GT2 891-0FN20	20 meter pre-assembled cable
	6GT2 891-0FN50	50 meter pre-assembled cable
M12 termination resistor for PROFIBUS (5 per Pack)	6GK1 905-0EC00	Required if ASM456 is an end-node
Additional Components		
PROFIBUS ECOfast connector Plug (5 per pack) With Socket insert	6GK1 905-0CB00	For the supply side of the PROFIBUS network. Use term. resistor on the 2nd ECOfast port if ASM456 is an end node
PROFIBUS ECOfast connector plug (5 per pack) With Pin insert	3RX9 802-0AA0	1 pack = 1 item
Covering Caps for unused 7/8" (24Vdc power) ports	6ES7 194-3JA00-0AA0	1 pack = 10 items

RF180C Bill of Materials Guide

SIEMENS

The RF180C is a PROFINET interface module that can have one of two connection blocks plugged into it: either an M12-7/8" connection block or a Push Pull connection block plugged into it. This helps maintain its IP67 rating. Note that a separate power supply cable with 7/8" connector must be included to power the block. The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.



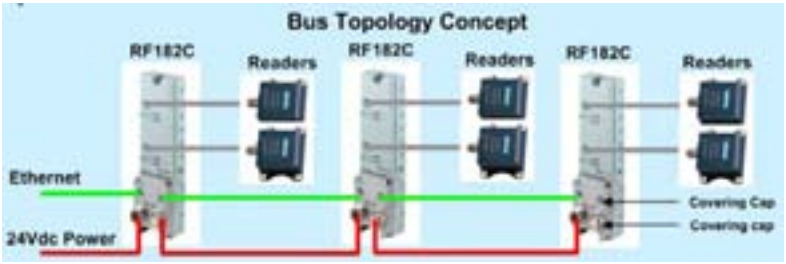
Description	Part Number	Notes
RF180C	6GT2 002-0JD00	For PROFIBUS networks. 2 read/write devices or readers can be connected
M12-7/8" Connecting Block	GT2 002-1JD00	Connecting block 4-pin M12 Ethernet, 5-pin 7/8" Power
Push-Pull	6GT2 002-2JD00	Connection block RJ45 in IP 67
Make your own M12 PROFINET connection Cables		
SIMATIC NET Ethernet M12 4-pin connector	6GK1 901-0DB10-6AA0	Ethernet to connection Block. 2x M12 4-pin connectors needed if loop-through
RJ45 connector with metal casing and DC connection system, 180° cable outlet	6GK1 901-1BB10-2AA0	For connection into standard RJ45-type Ethernet switch
ETHERNET industrial cable 2x2, Type A, unassembled	6XV1840-2AH10	Sold by the meter Minimum length 20m; Maximum length 1000m
Use Pre-Made M12 PROFINET connection Cables		
Pre-assembled PROFINET cable with 4-pin M12 on both ends	6XV1 870-8xxx	0.3m– 15 m pre-assembled cable
Make your own Push Pull POFINET connection cable		
Push Pull RJ45 plug	6GK1901-1BB10-6AA0	IP 65 RJ45 connector
ETHERNET industrial cable 2x2, Type A, unassembled	6XV1 840-2AH10	Sold by the meter Minimum length 20m; Maximum length 1000m
Use Pre-Made Push Pull PROFINET connection cables		
at the moment not available from Siemens ask your Siemens distributor		
Make your own 7/8" Power supply connection cables		
For power to each comm module, standard 4connection TO cable can be used with 7/8" connectors.		
Power cable	6XV1 830-8AH10	For the supply side of the 24Vdc power Form 20m up to 1000m
Connector plug 7/8" for voltage (5 per pack) With Socket Insert	6GK1 905-0FB00	For the supply side of the 24Vdc power
Connector plug 7/8" for voltage (5 per pack) With Pin Insert	6GK1 905-0FA00	For the loop-through of 24Vdc power

Description	Part Number	Notes
Use Pre-made 7/8" power supply connection cables		
Cable for supply voltage with pre-assembled 7/8" connectors	6XV1 822-5Bxxx	See Online Mall (http://mall.automation.siemens.com) Lengths available from 0.5m up to 15m
Make your own Push Pull Power supply connection cables		
For power to each comm module, standard 4connection TO cable can be used with Push Pull connectors.		
Power cable	6XV1 830-8AH10	For the supply side of the 24Vdc power; Form 20m up to 1000m
Push Pull Connector plug for 24Vdc	6GK1907-0AB10-6AA0	For the supply side of the 24Vdc power
Use Pre-made Push Pull power supply connection cables		
at the moment not available from Siemens ask your Siemens distributor		
Make your own ASM to MOBY/RF Reader cables		
Refer to the Bulk Cable and Connectors Tables (Pages 35- 36)		
Use Pre-Made ASM to MOBY/RF Reader Cables		
Reader Cable MOBY E/I/U; 2m	6GT2 091-0FH20	MOBY-E, MOBY-I, and MOBY-U readers
Reader Cable MOBY E/I/U; 5m	6GT2 091-0FH50	MOBY-E, MOBY-I, and MOBY-U readers
Reader Cable MOBY D; 2m (Without reader 6GT2 602-0AB10-0AX0)	6GT2 691-0FH20	MOBY-D readers
Reader cable RF300/ RF600 or Extension cable for RF300 / MOBY D/E/I/U or reader cable for 6GT2 602-0AB10-0AX0	6GT2 891-0FH20	2 meter pre-assembled cable
	6GT2 891-0FH50	5 meter pre-assembled cable
	6GT2 891-0FN10	10 meter pre-assembled cable
	6GT2 891-0FN20	20 meter pre-assembled cable
	6GT2 891-0FN50	50 meter pre-assembled cable
Additional Components		
Covering cabs for unused 7/8" (24Vdc power) ports	6ES7 194-3JA00-0AA0	1 pack = 10 items
Covering cabs for unused M12 ports	3RX9 802-0AA00	1 pack = 1 items

RF182C Bill of Materials Guide

SIEMENS

The RF182C is a Ethernet TCP/IP interface module that can have one of three connection blocks plugged into it: either an M12-7/8" connection block or a Push Pull connection block plugged into it. This helps maintain its IP67 rating. Note that a separate power supply cable with 7/8" connector must be included to power the block. The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.



Description	Part Number	Notes
RF182C	6GT2 002-0JD10	For Ethernet networks. 2 read/write devices or readers can be connected
M12-7/8" (5-pin) Connecting Block	GT2 002-1JD00	Connecting block 4-pin M12 Ethernet, 5-pin 7/8" Power
Push-Pull	6GT2 002-2JD00	Connection block RJ45 in IP 67
M12-7/8" (4-pin) Connecting Block	GT2 002-4JD00	Connecting block 4-pin M12 Ethernet, 4-pin 7/8" Power
Make your own M12 Ethernet connection Cables		
SIMATIC NET Ethernet M12 4-pin connector	6GK1 901-0DB10-6AA0	Ethernet to connection Block. 2x M12 4-pin connectors needed if loop-through
RJ45 connector with metal casing and DC connection system, 180° cable outlet	6GK1 901-1BB10-2AA0	For connection into standard RJ45-type Ethernet switch
ETHERNET industrial cable 2x2, Type A, unassembled	6XV1840-2AH10	Sold by the meter Minimum length 20m; Maximum length 1000m
Use Pre-Made M12 Ethernet connection Cables		
Pre-assembled PROFINET cable with 4-pin M12 on both ends	6XV1 870-8xxx	0.3m– 15 m pre-assembled cable
Make your own Push Pull Ethernet connection cable		
Push Pull RJ45 plug	6GK1901-1BB10-6AA0	IP 65 RJ45 connector
ETHERNET industrial cable 2x2, Type A, unassembled	6XV1 840-2AH10	Sold by the meter Minimum length 20m; Maximum length 1000m
Use Pre-Made Push Pull Ethernet connection cables		
at the moment not available from Siemens; ask your Siemens distributor		
Make your own 7/8" Power supply connection cables with 5pin plug		
For power to each comm module, standard 4connection TO cable can be used with 7/8" connectors.		
Power cable	6XV1 830-8AH10	For the supply side of the 24Vdc power; Form 20m up to 1000m
Connector plug 7/8" for voltage (5 per pack) With **Socket Insert**	6GK1 905-0FB00	For the supply side of the 24Vdc power
Connector plug 7/8" for voltage (5 per pack) With **Pin Insert**	6GK1 905-0FA00	For the loop-through of 24Vdc power
Use Pre-made 7/8" power supply connection cables with 5pin plug		
Cable for supply voltage with pre-assembled 7/8" connectors	6XV1 822-5Bxxx	See Online Mall (Length 0.5m to 15m) (http://mall.automation.siemens.com)

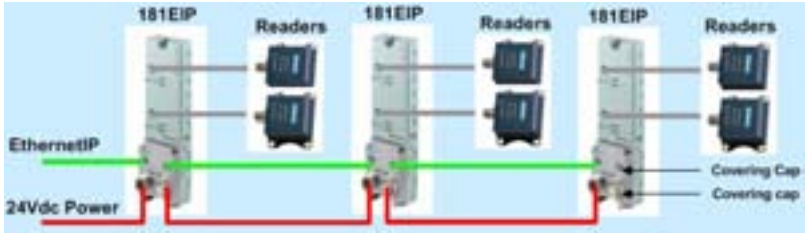
Description	Part Number	Notes
Make your own Push Pull Power supply connection cables		
For power to each comm module, standard 4connection TO cable can be used with Push Pull connectors.		
Power cable	6XV1 830-8AH10	For the supply side of the 24Vdc power; Form 20m up to 1000m
Push Pull Connector plug for 24Vdc	6GK1907-0AB10-6AA0	For the supply side of the 24Vdc power
Use Pre-made Push Pull power supply connection cables		
at the moment not available from Siemens; ask your Siemens distributor		
Make your own 7/8" Power supply connection cables with 4pin plug		
Power cable	6XV1 830-8AH10	For the supply side of the 24Vdc power Form 20m up to 1000m
Use Pre-made 7/8" power supply connection cables with 4pin plug		
not available from Siemens		
Make your own ASM to MOBY/RF Reader cables		
Refer to the Bulk Cable and Connectors Tables (Pages 35- 36)		
Use Pre-Made ASM to MOBY/RF Reader Cables		
Reader Cable MOBY E/I/U; 2m	6GT2 091-0FH20	MOBY-E, MOBY-I, and MOBY-U readers
Reader Cable MOBY E/I/U; 5m	6GT2 091-0FH50	MOBY-E, MOBY-I, and MOBY-U readers
Reader Cable MOBY D; 2m (Without reader 6GT2 602-0AB10-0AX0)	6GT2 691-0FH20	MOBY-D readers
Reader cable RF300/ RF600 or Extension cable for RF300 / MOBY D/E/I/U or reader cable for 6GT2 602-0AB10-0AX0	6GT2 891-0FH20	2 meter pre-assembled cable
	6GT2 891-0FH50	5 meter pre-assembled cable
	6GT2 891-0FN10	10 meter pre-assembled cable
	6GT2 891-0FN20	20 meter pre-assembled cable
	6GT2 891-0FN50	50 meter pre-assembled cable
Additional Components		
Covering cabs for unused 7/8" (24Vdc power) ports	6ES7 194-3JA00-0AA0	1 pack = 10 items
Covering cabs for unused M12 ports	3RX9 802-0AA00	1 pack = 1 items

RFID 181EIP Bill of Materials Guide

SIEMENS

The 181EIP is an EthernetIP (Rockwell protocol) interface module that can have one of two connection blocks plugged into it: either an M12-7/8“ 5pin connection block or an M12-7/8" 4pin connection block plugged into it. This helps maintain its IP67 rating. Note that a separate power supply cable with 7/8” connector must be included to power the block. The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.

Description	Part Number	Notes
RFID 181EIP Base	6GT2 002-0JD20 (LZN) A6X3 0010459 (Canton)	For EthernetIP networks. 2 read/ write Devices or readers can be connected
M12-7/8” (5-pin) Connecting Block	GT2 002-1JD00	Connecting block 4-pin M12 Ethernet, 5-pin 7/8” Power
M12-7/8” (4-pin) Connecting Block	GT2 002-4JD00	Connecting block 4-pin M12 Ethernet, 4-pin 7/8” Power
Make your own M12 EthernetIP connection Cables		
SIMATIC NET Ethernet M12 4-pin connector	6GK1 901-0DB10-6AA0	Ethernet to connection Block. 2x M12 4-pin connectors needed if loop-through
RJ45 connector with metal casing and DC connection system, 180° cable outlet	6GK1 901-1BB10-2AA0	For connection into standard RJ45-type Ethernet switch
ETHERNET industrial cable 2x2, Type A, unassembled	6XV1840-2AH10	Sold by the meter Minimum length 20m Maximum length 1000m
Use Pre-Made M12 EthernetIP connection Cables		
Pre-assembled EthernetIP cable 2x2, Type A, unassembled	6XV1 870-8xxx	0.3m– 15 m pre-assembled cable
Make your own 7/8” Power supply connection cables with 5pin plug		
For power to each comm module, standard 4connection TO cable can be used with 7/8” connectors.		
Power cable	6XV1 830-8AH10	For the supply side of the 24Vdc power Form 20m up to 1000m
Connector plug 7/8” for voltage (5 per pack) With Socket Insert	6GK1 905-0FB00	For the supply side of the 24Vdc power (For 5-pin 7/8” connection block only)
Connector plug 7/8” for voltage (5 per pack) With Pin Insert	6GK1 905-0FA00	For the loop-through of 24Vdc power (For 5-pin 7/8” connection block only)
Use Pre-made 7/8” power supply connection cables with 5pin plug		
Cable for supply voltage with pre-assembled 7/8” connectors	6XV1 822-5Bxxx*	See Online Mall (http://mall.automation.siemens.com) (For 5-pin 7/8” connection block only)
Make your own 7/8” Power supply connection cables with 4pin plug		
Power cable	6XV1 830-8AH10	For the supply side of the 24Vdc power Form 20m up to 1000m
Use Pre-made 7/8” power supply connection cables with 4pin plug		
not available from Siemens		



Description	Part Number	Notes
Make your own ASM to MOBY/RF Reader cables		
Refer to the Bulk Cable and Connectors Tables (Pages 35- 36)		
Use Pre-Made ASM to MOBY/RF Reader Cables		
Reader Cable MOBY E/I/U; 2m	6GT2 091-0FH20	MOBY-E, MOBY-I, and MOBY-U readers
Reader Cable MOBY E/I/U; 5m	6GT2 091-0FH50	MOBY-E, MOBY-I, and MOBY-U readers
Reader Cable MOBY D; 2m (With out reader 6GT2 602-0AB10-0AX0)	6GT2 691-0FH20	MOBY-D readers
Reader cable RF300/ RF600 or Extension cable for RF300 / MOBY D/E/I/U or reader cable for 6GT2 602-0AB10-0AX0	6GT2 891-0FH20	2 meter pre-assembled cable
	6GT2 891-0FH50	5 meter pre-assembled cable
	6GT2 891-0FN10	10 meter pre-assembled cable
	6GT2 891-0FN20	20 meter pre-assembled cable
	6GT2 891-0FN50	50 meter pre-assembled cable
Additional Components		
Covering cabs for unused 7/8” (24Vdc power) ports	6ES7 194-3JA00-0AA0	1 pack = 10 items
Covering cabs for unused M12 ports	3RX9 802-0AA00	1 pack = 1 items

Bulk Cable and Connectors

SIEMENS

	ASM 424	ASM 456	ASM472	ASM475	RS232 to PC	RF170C	RF180C, RF182C, RFID 181EIP
MOBY D							
SLG D 1x	Not Applicable	Not Applicable	Not Applicable	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 490-1AA00 (SLG connector) 6GT2 490-1AA00 (PC connector)	Not Applicable	Not Applicable
SLG D1xS	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 490-1AA00 (SLG connector) 8-pin M12/M (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 490-1AA00 (SLG connector) 6GT2 090-0BC00 (ASM connector)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 490-1AA00 (SLG connector)	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 490-1AA00 (SLG connector) 8-pin/M M12 (ASM connector)4	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 490-1AA00 (SLG connector) 8-pin/M M12 (ASM connector)4
MOBY E							
SLG 7x	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 6GT2 090-0BB00 (ASM connector M)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin M12/M (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 6GT2 090-0BC00 (ASM connector)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3]	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin/M M12 (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin/M M12 (ASM connector)[4]
SIM 7x	Not Applicable	Not Applicable	Not Applicable	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 2 conductor 24Vdc Power Cable 6GT2 390-1AA00 (SIM Connector) 6GT2 490-1AA00 (PC connector)	Not Applicable	Not Applicable
ASM424/ ASM724	Not Applicable	Not Applicable	Not Applicable	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 2 conductor 24Vdc Power Cable 6GT2 090-0BB00 (ASM connector M) 6GT2 490-1AA00 (PC connector)	Not Applicable	Not Applicable
MOBY-I							
SLG4x, SLG4xS, SLG 4xC	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 6GT2 090-0BB00 (ASM connector M)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin M12/M (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 6GT2 090-0BC00 (ASM connector)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3]	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin/M M12 (ASM connector)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin M12/M (ASM connector)[4]
SIM 41	Not Applicable	Not Applicable	Not Applicable	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6AW5418-4F (SIM Connector)[2]	Not Applicable	Not Applicable
MOBY-U							
SLG U92 (RS-422)	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin M12/M (ASM connector)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 6GT2 090-0BC00 (ASM connector)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3]	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin M12/M (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2 090-0BA00 (SLG Connector)[3] 8-pin M12/M (ASM connector)[4]
SLG U92 (RS-232)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	6GT2 090-0A... (Siemens Cable) 2-conductor 24Vdc Power Cable 6GT2 090-0BA00 (SLG Connector)[3] 6GT2 490-1AA00 (PC connector)	Not Applicable	Not Applicable

Bulk Cable and Connectors

SIEMENS

	ASM 424	ASM 456	ASM472	ASM475	RS232 to PC	RF170C	RF180C, RF182C, RFID 181EIP
RF300							
RF310R (IQ-Sense)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
RF3X0R (RS422) (ASM type)	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 8-pin M12/M (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 6GT2090-0BC00 (ASM Connector)	6GT2090-0AN50 (50 m cable) 6GT2090-0AT12 (120 m cable) 6GT2090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 20-pin S7-300 (ASM Connector)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] PC side: interface converter RS422/ RS232	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2490-1AA00 (SLG connector) 8-pin/M M12 (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 8-pin M12/M (ASM connector)[4]
RF380R (RS232)	N/A	N/A	N/A	N/A	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 6GT2 490-1AA00 (PC connector)	N/A	N/A
RF600							
RF660R	Not Applicable	N/A	N/A	N/A	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 5-pin M12/F (RF600 seriel)[4]	N/A	N/A
RF620R/ RF630R	Not Applicable	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 8-pin M12/M (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 6GT2 090-0BC00 (ASM Connector)	6GT2 090-0AN50 (50 m cable) 6GT20 90-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 20-pin S7-300 (ASM Connector)	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 8-pin M12/M (RF170C connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 6GT2490-1AA00 (SLG connector) 8-pin/M M12 (ASM connector)[4]	6GT2 090-0AN50 (50 m cable) 6GT2 090-0AT12 (120 m cable) 6GT2 090-0AT80 (800 m cable) 8-pin M12/F (RF 3x0R Connector)[4] 8-pin M12/M (ASM connector)[4]
Power & Control-side Networking Components							
Cable & Connectors	DB9 and Serial Cable 24Vdc Power Cable	See ASM456 Bill of Materials Guide Page 30	6ES7 194-1AA01-0XA0 (24Vdc and PROFIBUS connectors for ASM 473 ET200X Base Module) DNH200X (Base module required for ASM472) 200XSMN4 (2x for DNH200X) 200XSMN5 (1x for DNH200X) PROFIBUS and 24Vdc Power Cable	Direct in S7-300 rack or in ET200M rack using IM153-2 Module	See Individual Readers Above	A tool called SIMATIC ET 200 Configurator is available for configuring the ET 200pro. You will find the tool on the Internet at: http://www.siemens.com/automation/service&support Search for the entry with the number 22614936.	See RF180C & RFID181EIP Bill of materials Guide page 32 - 34

Notes:

1. Certain readers and interface modules (ie. SLG D1x, SLG D1xS, ASM424/454/724/754, etc.) have a separate 24Vdc supply connection, thus have an onboard male M12 power connector.
   As an alternative to using a pre-made cable with the Wide Range Power Supply, one could use a female M12 and appropriate 4-conductor cable (pins 1&4 = 0Vdc, pins 2&3 = 24Vdc) to power these components:
   (a) Female 4Pin connector (1 per pack) 6GT2390-1AB00

2. SIM4x Connectors for MOBY-I family can be:
   (a) 25-pin (1 per pack) 6AW5418-4F
   (b) 25-pin (10 per pack) 6AW5418-4FD

3. SLG Connectors for MOBY-E/I/U families can be:
   (a) Angled (1 per pack) 6GT2090-0BA00
   (b) Angled (10 per pack) 6GT2090-0BA10
   (c) Straight-through (1 per pack) 6GT2090-0UA00

4. Binder sells 4-, 5-, and 8-pin male & female M12 connectors for making custom interface cables.
   These M12 connectors, like all SIMATIC RF M12 connectors, use standard A code keying.
   They also have screw terminals inside of them for wire connections, so they're easy to build in the field.
   The contact info is:

Binder-USA – Rick Lopez 4740 Calle Quetzal, Camarillo, CA93012 PHONE: (805) 437-9925 EMAIL: mailto:sales@binder-usa.com Web site =http://www.binder-usa.com	Binder Europa Rötelstrasse 27 74172 Neckarsulm PHONE: ++49 (0) 71 32 - 325-0 EMAIL: vk@binder-connector.de Web site: http://www.binder-connector.de	Binder Asia 南京江宁开发区诚信大道88号，7号楼 PHONE: 025-83328591 EMAIL: mailto:bindernj@binder-connector.cn Web site:http://www.binder-connector.cn

Binder Order example for reader cabling:
M12 cable connector 8 pin, male with screws: 99-1487-812-08
M12 cable connector 8 pin, female with screws: 99-1486-812-08