

Modicon Quantum automation platform

Catalog

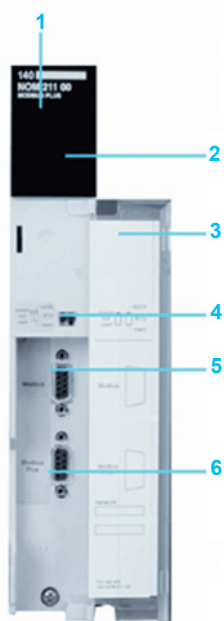
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Connection (continued)

For diagram numbers, see page 5/48

- 1 **140NOM21200**: Quantum Modbus Plus head-end interface, redundant medium, twisted pair cable
- **140NOM21100**: Quantum Modbus Plus head-end interface, single medium, twisted pair cable
- 2 **140NOM25200**: Quantum Modbus Plus head-end interface, redundant medium, optical fibre cable (TX/RX)
- 3 **140CPU**: Quantum CPU with integrated Modbus Plus port, single-cable medium, twisted pair cable
- 4 **140CRA21210**: Quantum Modbus Plus drop interface and power supply, redundant medium, 115/230 V ~
- **140CRA21220**: Quantum Modbus Plus drop interface and power supply, redundant medium, 24 V ---
- 5 **140CRA21110**: Quantum Modbus Plus drop interface and power supply, single-cable medium, 115/230 V ~
- **140CRA21120**: Quantum Modbus Plus drop interface and power supply, single-cable medium, 24 V ---
- 6 **170PNT16020**: Momentum Modbus Plus communication adaptor, redundant network, IEC medium
- 7 **170NEF16021**: Momentum Modbus Plus communication adaptor, redundant network, 984 medium
- **170NEF11021**: Momentum Modbus Plus communication adaptor, non-redundant network, 984 medium
- 8 **170PNT11020**: Momentum Modbus Plus communication adaptor, non-redundant network, IEC medium
- 9 **490NRP25400**: Modbus Plus repeater, line/drop, optical fibre medium
- **490NRP25300**: Modbus Plus repeater, point-to-point, optical fibre medium
- **NWBM85C002**: Modbus Plus gateway/multiplexer, panel or shelf mount, 4 Modbus Plus ports
- **NWRR85001**: Modbus Plus repeater, coaxial cable
- 10 **AMSA85030**: Modbus Plus ISA PC adaptor, single port
- 11 **416NHM30030**: Modbus Plus PCI PC adaptor, single port
- 12 **SWMXDS001**: Modbus Plus driver suite
- 13 **990NAD23011**: Modbus Plus T-connector ruggedized terminators
- 14 **174CEV20040**: Modbus Plus-Ethernet bridge
- 15 **416NHM21234**: Modbus Plus type III PCMCIA card, single port with Plug-and-Play capability
- 16 **990NAD23000**: Modbus Plus T-connector, IP 20
- 17 **990NAD23010**: Modbus Plus T-connector, IP 65
- **ASMBKT085**: Modbus Plus inline connector
- **ASMBKT185**: Modbus Plus terminating connector
- 18 **990NAD21110**: Drop cable, 2.4 m
- 19 **990NAA21510**: Ruggedized T-connector programming cable, 3.05 m
- 20 **170MCI02120**: Modbus Plus RJ45 cable, 3.05 m
- 21 **170XTS02000**: Modbus Plus "T" connector (DB9 base)
- 22 **170MCI02010**: Modbus Plus RS 485 cable, 25 cm
- 23 **170MCI02080**: Modbus Plus RJ45 cable, differential, 10 m
- 24 **170XTS02100**: Modbus Plus RJ45 terminator
- 25 **416NHM30032**: Modbus Plus PCI PC adaptor, two ports
- **NWBP85002**: Modbus Plus Bridge Plus, 4 Modbus Plus ports



140NOM211●0 /
140NOM212●0

Description

140CPU modules incorporate a Modbus Plus port as standard, which can be used for DIO network no. 1 (see description on pages 1/8 and 1/9).

140NOM211●0 and **140NOM212●0** Modbus Plus head-end adaptors for DIO network no. 2 or no. 3 have the following on the front panel:

- 1 Model number and colour code
- 2 A display block with 6 LEDs: Ready (green), Fault (red), Pwr ok (green), Modbus + (green), Ready (green), Error B (red)
- 3 A removable hinged door with a customizable identification label
- 4 A microswitch for configuring the Modbus port (ASCII-RTU-mem)
- 5 A 9-way female SUB-D connector for connecting the Modbus link
- 6 A 9-way female SUB-D connector for connection to DIO Modbus Plus network no. 2 or no. 3

References (continued)

Connection cables

Description	Length m/ft	Item	Reference	Weight kg/lb
Modbus Plus standard cables	30.5/100.07	—	490NAA27101	—
	152.5/500.33	—	490NAA27102	—
	305/1000.65	—	490NAA27103	—
	457/1558.39	—	490NAA27104	—
	1525/5003.27	—	490NAA27106	—
Modbus Plus drop cables	2.4/7.87	18	990NAD21110	—
	6/19.68	—	990NAD21130	—
PC programming cable/ T-connector	3.05/10.01	19	990NAA21510	—
Modbus Plus RS 485 cable	0.25/0.82	22	170MCI02010	—
	1/3.28	—	170MCI02036	—
Modbus Plus RS 485 Master communication cable (RJ45/RJ45)	0.3/0.98	—	170MCI04110	—
Modbus Plus RJ45 cable	3/9.84	20	170MCI02120	—
Modbus Plus differential RJ45 cables	3/9.84	—	170MCI02180	—
	10/32.81	23	170MCI02080	—
Cable (RJ45/RJ45)	1/3.28	—	110XCA28201	—
	3/9.84	—	110XCA28202	—
	6/19.68	—	110XCA28203	—

Cabling accessories

Description	Type	Item	Reference	Weight kg/lb
Modbus Plus power supply module connector	IP 20	—	140XTS00500	—
Modbus Plus D-shell adaptor for AT serial port	9-way RJ45	—	110XCA20300	—
Modbus Plus D-shell adaptor for XT serial port	25-way RJ45	—	110XCA20400	—

Cabling tools

Description	Item	Reference	Weight kg/lb
Modbus Plus network cable installation tool	—	ASMBPL001	—
RJ crimping tool	—	170XTS02300	—
Earthing clamp	—	424244739	—

Connectors

Description	Sold in lots of	Item	Reference	Weight kg/lb
Modbus Plus inline	1 per kit	—	ASMBKT085	—
Modbus Plus terminator	2 per kit	—	ASMBKT185	—
Modbus Plus "T" connector (DB9 base)	1	21	170XTS02000	—
RJ45 terminator	2 per kit	24	170XTS02100	—
RJ45 "T" connector for RS 485 cable (DB9 base)	—	—	170XTS04000	—
RJ45 shielded connectors	20 per kit	—	170XTS02200	—
RJ45 "T" connector for RS 485 cable	1	—	170XTS04100	—
RS 485 multi-master RJ45 drop connections	2	—	170XTS04200	—

T-connectors

Description	Sold in lots of	Item	Reference	Weight kg/lb
Modbus Plus T-connector, IP 20	1	16	990NAD23000	—
Modbus Plus ruggedized T-connector, IP 65	1	17	990NAD23010	—
Modbus Plus T-connector ruggedized terminators	2 per kit	13	990NAD23011	—
Modbus Plus DIN rack flush- mounting assembly with ruggedized T-connector	1	—	990NAD23012	—
Modbus Plus lightning arrester	1	—	490NAC72100	—

1 to 9		140CPU65150C	8/3	140CRP93200C	6/17	140DSI35300C	8/6	140XBP00300	1/17
110XCA20300	1/13	140CPU65160	1/12		8/5	140DVO85300	3/14	140XBP00300C	8/4
	5/53		2/22		8/8	140DVO85300C	8/6	140XBP00400	1/17
	6/23		5/40	140DAI34000	3/14	140EHC10500	4/5	140XBP00400C	8/4
110XCA20400	5/53	140CPU65160C	8/3	140DAI34000C	8/6	140EHC10500C	8/8	140XBP00600	1/17
110XCA28201	1/13	140CPU65160S	6/5	140DAI35300	3/14	140EHC20200	4/5		6/6
	5/53		6/23	140DAI35300C	8/6	140EHC20200C	8/8		6/38
	6/23		8/3	140DAI45300	3/14	140EIA92100	5/43	140XBP00600C	8/4
110XCA28202	1/13	140CPU65260	1/12	140DAI45300C	8/6	140EIA92100C	8/9	140XBP01000	1/17
	5/53		2/22	140DAI54000	3/14	140ERT85420	4/9		6/6
	6/23		5/40	140DAI54000C	8/6		6/6		6/38
110XCA28203	1/13	140CPU65260C	8/3	140DAI54300	3/14		6/38	140XBP01000C	8/4
	5/53	140CPU65860	1/12	140DAI54300C	8/6	140ERT85420C	8/8	140XBP01600	1/17
	6/23		2/22	140DAI55300	3/14	140ESI06210	5/57		6/6
140ACI03000	3/22		5/40	140DAI55300C	8/6	140ESI06210C	8/9		6/38
140ACI03000C	8/7	140CPU65860C	8/3	140DAI74000	3/14	140HLI34000	4/7	140XBP01600C	8/4
140ACI04000	3/22	140CPU67060	1/12	140DAI74000C	8/6	140HLI34000C	8/8	140XCA71703	1/17
	6/6		2/40	140DAI75300	3/14	140NOC77101	5/39		2/23
	6/38	140CPU67060C	8/3	140DAI75300C	8/6	140NOC78000	2/22		2/31
140ACI04000C	8/7	140CPU67160	1/12	140DAM59000	3/15		2/40	140XCA71706	1/17
	3/22		2/23	140DAM59000C	8/7		5/39		2/23
	6/6		2/40	140DAO84000	3/14	140NOC78100	2/22		2/31
140ACO02000	6/38	140CPU67160C	8/3	140DAO84000C	8/6		2/40	140XCA71709	1/17
		140CPU67160S	6/5	140DAO84010	3/14		5/39		2/23
140ACO02000C	8/7		6/17	140DAO84010C	8/6	140NOE77101	2/40		2/31
140ACO13000	3/22		6/23	140DAO84210	3/14		5/41	140XCP20000	3/15
140ACO13000C	8/7		8/3	140DAO84210C	8/6	140NOE77101C	8/8		3/23
140AMM09000	3/22	140CPU67260	1/12	140DAO84220	3/14	140NOE77111	2/40		6/33
140AMM09000C	8/7		2/23	140DAO84220C	8/6		5/41		6/39
140ARI03010	3/22		2/40	140DAO85300	3/14		6/6	140XCP40100	1/17
140ARI03010C	8/7	140CPU67260C	8/3	140DAO85300C	8/6		6/17		6/39
140ATI03000	3/22	140CPU67261	1/12	140DDI15310	3/14		6/38	140XCP40200	1/17
140ATI03000C	8/7		2/23	140DDI15310C	8/6	140NOE77111C	6/17		6/39
140AVI03000	3/22		2/40	140DDI15310C	8/6		8/8	140XCP50000	3/15
140AVI03000C	8/7	140CPU67261C	8/3	140DDI35300	3/14		8/9		8/9
140AVO02000	3/22	140CPU67861	1/12		6/6	140NOM21100	5/52	140XCP51000	3/15
140AVO02000C	8/7		2/23		6/38	140NOM21100C	8/5		6/39
140CPS11100	1/21		2/40	140DDI35300C	8/6		8/9	140XCP60000	3/15
140CPS11100C	8/4	140CPU67861C	8/3	140DDI35310	3/14	140NOM21200	5/52		6/33
140CPS11420	1/21	140CRA21110	5/52	140DDI35310C	8/6	140NOM21200C	8/5		6/39
140CPS11420C	8/4	140CRA21110C	8/5	140DDI36400	3/14		8/9	140XCP90000	4/9
140CPS12420	1/21		8/9	140DDI36400C	8/6	140NOM25200	5/52		5/57
	6/5	140CRA21120	5/52	140DDI67300	3/14	140NOM25200C	8/5	140XCP90000C	8/9
	6/38	140CRA21120C	8/5	140DDI67300C	8/6		8/9	140XTS00100	3/15
140CPS12420C	6/5		8/9	140DDI84100	3/14	140NRP31200	2/22		3/23
	8/4	140CRA21210	5/52	140DDI84100C	8/6	140NRP31200C	8/5		4/5
	1/21	140CRA21210C	8/5	140DDI85300	3/14	140NRP31201	2/22		6/6
140CPS21100	1/21		8/9	140DDI85300C	8/6	140NRP31201C	8/5		6/33
140CPS21100C	8/4	140CRA21220	5/52	140DDI85300C	8/6	140NRP95400	2/31		6/39
140CPS21400	1/21	140CRA21220C	8/5	140DDM39000	3/15		6/6		8/9
140CPS21400C	8/4		8/9	140DDM39000C	8/7		6/17	140XTS00200	3/15
140CPS22400	1/21	140CRA21220C	8/5	140DDM69000	3/15		6/38		3/23
	6/5	140CRA31200	2/22	140DDM69000C	8/7	140NRP95400C	6/17		4/5
	6/38	140CRA31200C	8/5	140DDO15310	3/14		8/5		4/9
140CPS22400C	6/5	140CRA93100	2/31	140DDO15310C	8/6	140NRP95401C	2/31		6/6
	8/4	140CRA93100C	8/5	140DDO35300	3/14		6/6		6/33
	1/21		8/8		6/6		6/17		6/39
140CPS41400	1/21	140CRA93200	2/31		6/38		8/5	140XTS00500	1/21
140CPS41400C	8/4		6/6	140DDO35300C	8/6		5/41		5/53
140CPS42400	1/21		6/17	140DDO35301	3/14	140NWM10000	6/5		6/39
140CPS42400C	8/4		6/38	140DDO35301C	8/6		6/27	170DNT11000	5/55
140CPS51100	1/21	140CRP31200	2/22	140DDO35310	3/14	140SAI94000S	6/33	170MCI02010	5/53
140CPS51100C	8/4		2/40	140DDO35310C	8/6		8/7	170MCI02036	5/53
140CPS52400	1/21	140CRP31200C	8/5	140DDO36400	3/14	140SDI95300S	6/5	170MCI02080	5/53
140CPS52400C	8/4	140CRP93100	2/31	140DDO36400C	8/6		6/27	170MCI02120	5/53
140CPU11302C	8/3		2/40	140DDO84300	3/14		6/33	170MCI02180	5/53
140CPU11303C	8/3	140CRP93100C	8/5	140DDO84300C	8/6		8/6	170MCI04110	5/53
140CPU31110	1/12		8/8	140DDO88500	3/14	140SDO95300S	6/5	170NEF11021	5/52
140CPU31110C	8/3	140CRP93100C	8/5	140DDO88500C	8/6		6/27	170NEF16021	5/52
140CPU43412AC	8/3	140CRP93200	2/31	140DRA84000	3/14		6/33	170PNT11020	5/52
140CPU43412U	1/12		2/40	140DRA84000C	8/6		8/6	170PNT16020	5/52
140CPU43412UC	8/3		6/6	140DRC83000	3/14	140XBE10000	1/17	170XTS02000	5/53
140CPU53414BC	8/3		6/17	140DRC83000C	8/6		2/23	170XTS02100	5/53
140CPU65150	1/12		6/38	140DSI35300	3/14		2/31	170XTS02200	5/53
	2/22					140XBE10000C	8/4		
	5/40								