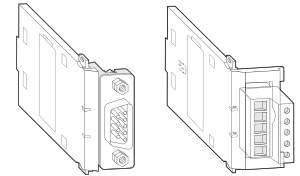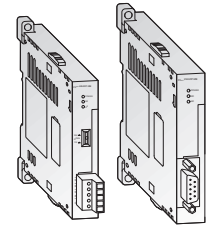# FX Communications and Networking Expansion

Serial Communication

These communication expansion boards allow their respective FX main units to communicate with external devices and other FX main units over a variety of serial networks.

Model Number	FX2N-232IF	FX1N-232-BD	FX1N-422-BD	FX1N-485-BD	FX3G-232-BD	FX3G-422-BD	FX3G-485-BD
Stocked Item	S	S	S	S	S	S	S
Rating	CE	UL • cUL • CE (EMC)	CE (EMC)	UL • cUL • CE (EMC)	CE	CE	CE
Interface	RS-232 with 9-pole D-SUB connector	RS-232 with 9 pole D-SUB connector	RS-422 with 8 pole mini DIN connector	RS-485	RS-232 with 9 pole D-SUB connector	RS-422	RS-485
Power Supply	5 VDC / 40 mA (from min unit), 24VDC / 80 mA	5 VDC / 60 mA (from main unit)	5 VDC / 60 mA (from main unit)	5 VDC / 60 mA (from main unit)	5 VDC (from main unit)	5 VDC (from main unit)	5 VDC (from main unit)
Related I/O Points	8	—	—	—	—	—	—
Weight (kg)	0.3	0.02	0.01	0.02	0.2	0.2	0.2
Dimensions (W x H x D) (mm)	55 x 90 x 87	43 x 38.5 x 22	43 x 38.5 x 20	43 x 38.5 x 22	35 x 51 x 17.2	35 x 51 x 14.9	35 x 51 x 29.2
Applicable PLCs	FX3U / FX3UC	FX1S / 1N	FX1S / FX1N	FX1S / 1N	FX3G	FX3G	FX3G

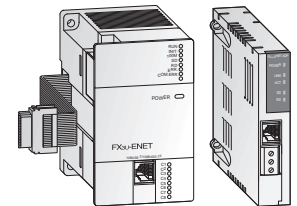### Modbus and Serial Communication Adapters

These communication special adapters support a wide range of serial communication standards including Modbus.

Model Number	FX3U-485ADP-MB	FX3U-232ADP-MB
Stocked Item	S	S
Rating	UL • cUL • CE (EMC)	
Power Supply	5VDC / 20 mA (from main unit)	5VDC / 30 mA (from main unit)
Communication Speed	RS-485	RS-232C
Communication Distance	Max. 115.2 kbps	Max. 115.2 kbps
Related I/O Points	0	0
Weight (kg)	0.08	0.08
Dimensions W x H x D (mm)	17.6 x 90 x 89.5	17.6 x 90 x 89.5
Applicable PLCs	FX3U / FX3UC / FX3G	FX3U / FX3UC / FX3G

Networking Modules

Ethernet

The FX3U-ENET communication module enables 8 ports of simultaneous Ethernet communication with features such as peer-to-peer, email send/receive options, and program upload/download. The FX2NC-ENET-ADP communication special adapter is an Ethernet interface supporting 10BASE-T communication.

Model Number	FX3U-ENET	FX2NC-ENET-ADP
Stocked Item	S	S
Rating	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)
Max. Data Transmission	1023 words x 8	16 words
Power Supply	24VDC / 240 mA	Supplied from PLC
Communication Cable	Ethernet with RJ45 connector	Ethernet with RJ45 connector
Communication Protocol	MC Protocol, TCP / IP / UDP	—
Related I/O Points	8	8
Communication With Mail Server	SMTP / POP3	—
Maximum Transfer Rate	100 Mbps / 10 Mbps	—
Maximum Segment Length	100 m	—
Weight (kg)	0.3	0.1
Dimensions W x H x D (mm)	55 x 90 x 87	19 x 90 x 78
Applicable PLCs	FX3U / FX3UC / FX3G	FX1N / FX1S

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