

Function introduction

High functions model

Faster and easier. Realize diverse expandability and high functions. Various networks are supported, and data logging is realized by adding functions. Two types models, the FX3 Series flagship model FX3U and connector type FX3UC, are available.

FX3U

Ethernet

Data can be communicated with various devices using Ethernet. Monitoring and maintenance can be easily realized from a remote location.

Built-in High-speed Counter Functions

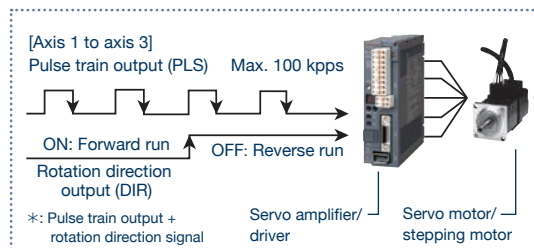
The built-in high-speed counter can import signals at max. 100 kHz (for 1-phase). This model can be used as a multiply-by-four counter when using with a normal multiply-by-one 2-phase input counter and special auxiliary relay (M8388, M8198, M8199).

*: FX3U supports only the DC input type.



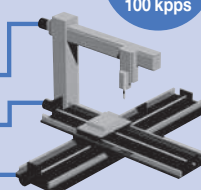
Built-in Positioning Function (Transistor output type)

With the independent 3-axis, the speed can be designated for each axis. In addition, the program can be simplified with batch setting positioning that can be set easily with parameters.



POSITIONING

- 1-axis ● Servo amplifier/driver
- 2-axis ● Servo amplifier/driver
- 3-axis ● Servo amplifier/driver



Independent
3-axis max.
100 kpps



FX3 series



SSCNET III support realizing high-speed, high-accuracy positioning control with outstanding noise resistance. Diverse functions, such as reduce wiring with fiber optical cables and real-time monitoring of servo information, increase the ease-of-use, and support a variety of positioning control methods.

CC-Link V2

CC-Link is a high-speed field network that can simultaneously handle control and information.

Analog Control

Analog devices can be connected easily.

Communication Control

Easily link data between devices.

External devices, such as code readers and printers can be easily connected.



FX3UC

Reduced wiring

Reduced space

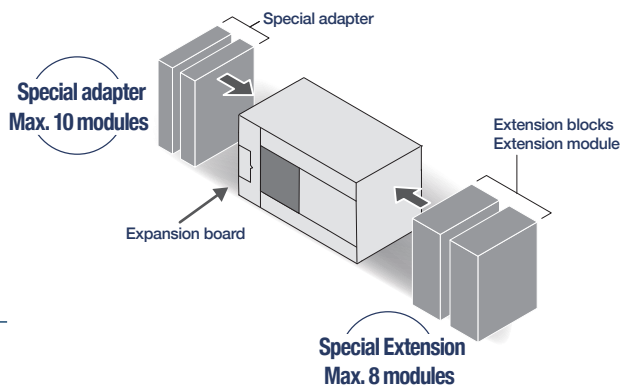


System Configuration



Controllable I/O: 16 - 256 points (Main unit I/O: 16/32/48/64/80/128 points)
[384 points for remote I/O configuration of CC-Link, AnyWireASLINK]

3rd generation micro PLC. New highly functional machine equipped with speed, capacity, performance, and functions. The built-in functions, such as the industry's highest level of high-speed processing and positioning, have been greatly improved.



Expansion board



For communication

FX3U-232-BD For RS-232C communication
FX3U-485-BD For RS-485 communication
FX3U-422-BD For RS-422 peripheral device communication

FX3U-USB-BD For USB communication

For 8-point analog volume

FX3U-8AV-BD*1 For 8-point analog volume

For special adapter connection

FX3U-CNV-BD For special adapter connection

The expansion board is required to connect the special adapter (excluding the high-speed input/output special adapter).

Refer to the product manual for details on the combination methods.

Special adapters



Analog special adapter

FX3U-4AD-ADP For input
FX3U-4DA-ADP For output
FX3U-3A-ADP*2 For input/output
FX3U-4AD-PT-ADP For Pt100 input
FX3U-4AD-PTW-ADP For Pt100 input
FX3U-4AD-TC-ADP For thermocouple input
FX3U-4AD-PNK-ADP For Pt1000, Ni1000 input

Communication special adapter

FX3U-ENET-ADP*3 For Ethernet communication
FX3U-232ADP-MB*4 For RS-232C communication
FX3U-485ADP-MB*4 For RS-485 communication

CF card special adapter

FX3U-CF-ADP*2 For data collection

High-speed input/output special adapter

FX3U-4HSX-ADP For high-speed input
FX3U-2HSY-ADP For high-speed output

FX3U Main units

	FX3U-16MR/ES FX3U-16MT/ES FX3U-16MT/ESS FX3U-16MR/DS FX3U-16MT/DS FX3U-16MT/DSS	<table><tr><td>AC</td><td>D2</td><td>R</td></tr><tr><td>AC</td><td>D2</td><td>T1</td></tr><tr><td>AC</td><td>D2</td><td>T2</td></tr><tr><td>DC</td><td>D2</td><td>R</td></tr><tr><td>DC</td><td>D2</td><td>T1</td></tr><tr><td>DC</td><td>D2</td><td>T2</td></tr></table>	AC	D2	R	AC	D2	T1	AC	D2	T2	DC	D2	R	DC	D2	T1	DC	D2	T2		FX3U-80MR/ES FX3U-80MT/ES FX3U-80MT/ESS FX3U-80MR/DS FX3U-80MT/DS FX3U-80MT/DSS	<table><tr><td>AC</td><td>D2</td><td>R</td></tr><tr><td>AC</td><td>D2</td><td>T1</td></tr><tr><td>AC</td><td>D2</td><td>T2</td></tr><tr><td>DC</td><td>D2</td><td>R</td></tr><tr><td>DC</td><td>D2</td><td>T1</td></tr><tr><td>DC</td><td>D2</td><td>T2</td></tr></table>	AC	D2	R	AC	D2	T1	AC	D2	T2	DC	D2	R	DC	D2	T1	DC	D2	T2
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Input : 8 pt/output : 8 pt																																									
	FX3U-32MR/ES FX3U-32MT/ES FX3U-32MS/ES FX3U-32MT/ESS FX3U-32MR/DS FX3U-32MT/DS FX3U-32MT/DSS	<table><tr><td>AC</td><td>D2</td><td>R</td></tr><tr><td>AC</td><td>D2</td><td>T1</td></tr><tr><td>AC</td><td>D2</td><td>S</td></tr><tr><td>AC</td><td>D2</td><td>T2</td></tr><tr><td>DC</td><td>D2</td><td>R</td></tr><tr><td>DC</td><td>D2</td><td>T1</td></tr><tr><td>DC</td><td>D2</td><td>T2</td></tr></table>	AC	D2	R	AC	D2	T1	AC	D2	S	AC	D2	T2	DC	D2	R	DC	D2	T1	DC	D2	T2		FX3U-128MR/ES FX3U-128MT/ES FX3U-128MT/ESS	<table><tr><td>AC</td><td>D2</td><td>R</td></tr><tr><td>AC</td><td>D2</td><td>T1</td></tr><tr><td>AC</td><td>D2</td><td>T2</td></tr></table>	AC	D2	R	AC	D2	T1	AC	D2	T2						
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Input : 16 pt/output : 16 pt																																									
	FX3U-48MR/ES FX3U-48MT/ES FX3U-48MT/ESS FX3U-48MR/DS FX3U-48MT/DS FX3U-48MT/DSS	<table><tr><td>AC</td><td>D2</td><td>R</td></tr><tr><td>AC</td><td>D2</td><td>T1</td></tr><tr><td>AC</td><td>D2</td><td>T2</td></tr><tr><td>DC</td><td>D2</td><td>R</td></tr><tr><td>DC</td><td>D2</td><td>T1</td></tr><tr><td>DC</td><td>D2</td><td>T2</td></tr></table>	AC	D2	R	AC	D2	T1	AC	D2	T2	DC	D2	R	DC	D2	T1	DC	D2	T2		FX3U-128MR/UA1	<table><tr><td>AC</td><td>A</td><td>R</td></tr></table>	AC	A	R															
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DC	D2	R																																							
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Input : 24 pt/output : 24 pt																																									
	FX3U-64MR/ES FX3U-64MT/ES FX3U-64MS/ES FX3U-64MT/ESS FX3U-64MR/DS FX3U-64MT/DS FX3U-64MT/DSS	<table><tr><td>AC</td><td>D2</td><td>R</td></tr><tr><td>AC</td><td>D2</td><td>T1</td></tr><tr><td>AC</td><td>D2</td><td>S</td></tr><tr><td>AC</td><td>D2</td><td>T2</td></tr><tr><td>DC</td><td>D2</td><td>R</td></tr><tr><td>DC</td><td>D2</td><td>T1</td></tr><tr><td>DC</td><td>D2</td><td>T2</td></tr></table>	AC	D2	R	AC	D2	T1	AC	D2	S	AC	D2	T2	DC	D2	R	DC	D2	T1	DC	D2	T2		FX3U-64MR/UA1	<table><tr><td>AC</td><td>A</td><td>R</td></tr></table>	AC	A	R												
AC	D2	R																																							
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AC	D2	T2																																							
DC	D2	R																																							
DC	D2	T1																																							
DC	D2	T2																																							
AC	A	R																																							
Input : 32 pt/output : 32 pt																																									

AC AC Power supply DC DC Power supply
 A AC Input D2 DC Input (sink/source)
 R Relay Output T1 Transistor Output (sink) T2 Transistor Output (source) S Triac Output

*1: Supported with main unit Ver. 2.70 and above
 *2: Supported with main unit Ver. 2.61 and above
 *3: Supported with main unit Ver. 3.10 and above. Only one unit can be mounted on left end of adapter.
 *4: MODBUS® communication supported with main unit Ver. 2.40 and above.
 *5: The expansion board is required to connect the special adapter in the stage after the high-speed input/output special adapter.

*6: Supported with main unit Ver. 2.21 and above
 *7: Supported with main unit Ver. 3.00 and above
 *8: Can be connected only to AC power type main unit.
 *9: Can be connected only to main unit DC power type main unit.

Outline specifications

Item	Outline specifications
Power supply	Power specifications
	Power consumption
	Rush current
	24 V DC service power supply
Input/output	Input specifications
	Output specifications
	Input/output extension
Built-in communication port	RS-422

Please choose the I/O type of CPU module or I/O module suited for your equipment.
Refer to the manual for each product's input/output format.

 : Production discontinued in March 2018

Extension device

						
Input extension blocks FX2N-8EX-ES/UL FX2N-8EX-UA1/UL FX2N-16EX-ES/UL Input/output extension block FX2N-8ER-ES/UL	FX2N-8EYR-ES/UL FX2N-8EYT-ESS/UL FX2N-8EYR-S-ES/UL FX2N-16EYR-ES/UL FX2N-16EYT-ESS/UL FX2N-16EYS	FX2N-32ER-ES/UL*8 FX2N-32ET-ESS/UL*8 FX2N-48ER-ES/UL*8 FX2N-48ET-ESS/UL*8 FX2N-48ER-UA1/UL*8 FX2N-48ER-DS*9 FX2N-48ET-DSS*9	Special extension blocks/unit • Analog A/D conversion FX2N-2AD FX2N-8AD FX3U-4AD • Analog D/A conversion FX2N-2DA FX3U-4DA • AD/DA combined FX2N-5A • Temperature FX2N-2LC FX3U-4LC	• High Speed Counter FX2N-1HC FX3U-2HC • Positioning FX3U-1PG FX2N-10PG FX3U-20SSC-H FX2N-1RM-E-SET FX2N-10GM FX2N-20GM	• Communication/network FX2N-232IF FX3U-16CCL-M FX3U-64CCL FX2N-32CCL FX2N-64CCL-M FX3U-128ASL-M FX3U-ENET*6 FX3U-ENET-L*6	FX3U-1PSU-5V*8

Option

					
Display module FX3U-7DM	Display module holder FX3U-7DM-HLD	Memory cassettes FX3U-FLROM-16 FX3U-FLROM-64 FX3U-FLROM-64L FX3U-FLROM-1M*7	Spare parts Battery FX3U-32BL (already mounted on main unit)	Extension cables FX0N-30EC (30 cm) FX0N-65EC (65 cm)	PLC Bus connector FX2N-CNV-BC

Peripheral device

			
GOT GOT2000, GOT1000	Handy programming panel FX-30P	Interface converters FX-USB-AW For USB FX-232AWC-H for RS-232C	Software GX Works2 GX Developer

FX3 series

◇ Main units

Model	Points		Outline dimensions (mm)
	Input	Output	(W × H × D)
◆FX3S series			
FX3S-10MR/ES	6	4	60 × 90 × 75
FX3S-10MT/ES			
FX3S-10MT/ESS			
FX3S-14MR/ES	8	6	60 × 90 × 75
FX3S-14MT/ES			
FX3S-14MT/ESS			
FX3S-20MR/ES	12	8	75 × 90 × 75
FX3S-20MT/ES			
FX3S-20MT/ESS			
FX3S-30MR/ES	16	14	100 × 90 × 75
FX3S-30MT/ES			
FX3S-30MT/ESS			
FX3S-30MR/ES-2AD	16	14	100 × 90 × 75
FX3S-30MT/ES-2AD			
FX3S-30MT/ESS-2AD			
FX3S-10MR/DS	6	4	60 × 90 × 49
FX3S-10MT/DS			
FX3S-10MT/DSS			
FX3S-14MR/DS	8	6	60 × 90 × 49
FX3S-14MT/DS			
FX3S-14MT/DSS			
FX3S-20MR/DS	12	8	75 × 90 × 49
FX3S-20MT/DS			
FX3S-20MT/DSS			
FX3S-30MR/DS	16	14	100 × 90 × 49
FX3S-30MT/DS			
FX3S-30MT/DSS			
◆FX3G series			
FX3G-14MR/ES	8	6	90 × 90 × 86
FX3G-14MT/ES			
FX3G-14MT/ESS			
FX3G-24MR/ES	14	10	90 × 90 × 86
FX3G-24MT/ES			
FX3G-24MT/ESS			
FX3G-40MR/ES	24	16	130 × 90 × 86
FX3G-40MT/ES			
FX3G-40MT/ESS			
FX3G-60MR/ES	36	24	175 × 90 × 86
FX3G-60MT/ES			
FX3G-60MT/ESS			
FX3G-14MR/DS	8	6	90 × 90 × 86
FX3G-14MT/DS			
FX3G-14MT/DSS			
FX3G-24MR/DS	14	10	90 × 90 × 86
FX3G-24MT/DS			
FX3G-24MT/DSS			
FX3G-40MR/DS	24	16	130 × 90 × 86
FX3G-40MT/DS			
FX3G-40MT/DSS			
FX3G-60MR/DS	36	24	175 × 90 × 86
FX3G-60MT/DS			
FX3G-60MT/DSS			
◆FX3GE series			
FX3GE-24MR/ES	14	10	130 × 90 × 86
FX3GE-24MT/ES			
FX3GE-24MT/ESS			
FX3GE-24MR/DS			
FX3GE-24MT/DS			
FX3GE-24MT/DSS	24	16	175 × 90 × 86
FX3GE-40MR/ES			
FX3GE-40MT/ES			
FX3GE-40MT/ESS			
FX3GE-40MR/DS			
FX3GE-40MT/DS			
FX3GE-40MT/DSS			

Model	Points		Outline dimensions (mm)
	Input	Output	(W × H × D)
◆FX3GC series			
FX3GC-32MT/D	16	16	34 × 90 × 87
FX3GC-32MT/DSS			
◆FX3U series			
FX3U-16MR/ES	8	8	130 × 90 × 86
FX3U-16MT/ES			
FX3U-16MT/ESS			
FX3U-32MR/ES	16	16	150 × 90 × 86
FX3U-32MT/ES			
FX3U-32MS/ES			
FX3U-32MT/ESS			
FX3U-32MR/UA1			
FX3U-48MR/ES	24	24	182 × 90 × 86
FX3U-48MT/ES			
FX3U-48MT/ESS			
FX3U-64MR/ES	32	32	220 × 90 × 86
FX3U-64MT/ES			
FX3U-64MS/ES			
FX3U-64MT/ESS			
FX3U-64MR/UA1			
FX3U-80MR/ES	40	40	285 × 90 × 86
FX3U-80MT/ES			
FX3U-80MT/ESS			
FX3U-128MR/ES	64	64	350 × 90 × 86
FX3U-128MT/ES			
FX3U-128MT/ESS			
FX3U-16MR/DS	8	8	130 × 90 × 86
FX3U-16MT/DS			
FX3U-16MT/DSS			
FX3U-32MR/DS	16	16	150 × 90 × 86
FX3U-32MT/DS			
FX3U-32MT/DSS			
FX3U-48MR/DS			
FX3U-48MT/DS			
FX3U-48MT/DSS	24	24	182 × 90 × 86
FX3U-64MR/DS			
FX3U-64MT/DS			
FX3U-64MT/DSS	32	32	220 × 90 × 86
FX3U-80MR/DS			
FX3U-80MT/DS			
FX3U-80MT/DSS	40	40	285 × 90 × 86
FX3U-80MR/DS			
FX3U-80MT/DS			
◆FX3UC series			
FX3UC-16MR/D-T	8	8	34 × 90 × 89
FX3UC-16MR/DS-T			
FX3UC-16MT/D	8	8	34 × 90 × 87
FX3UC-16MT/DSS			
FX3UC-32MT/D	16	16	34 × 90 × 87
FX3UC-32MT/DSS			
FX3UC-64MT/D	32	32	59.7 × 90 × 87
FX3UC-64MT/DSS			
FX3UC-96MT/D	48	48	85.4 × 90 × 87
FX3UC-96MT/DSS			

◇ Extension, peripheral device, and battery, etc.

Model	Specifications		Compatible PLC					
	Input	Output	FX3s	FX3g	FX3GE	FX3GC	FX3u	FX3uC
◆Extension unit								
FX2N-32ER-ES/UL	16 points	16 points	—	○	○	—	○	—
FX2N-32ET-ESS/UL			—	○	○	—	○	—
FX2N-32ER			—	○	○	—	○	—
FX2N-32ET			—	○	○	—	○	—
FX2N-32ES			—	○	○	—	○	—
FX2N-48ER-ES/UL	24 points	24 points	—	○	○	—	○	—
FX2N-48ET-ESS/UL			—	○	○	—	○	—
FX2N-48ER			—	○	○	—	○	—
FX2N-48ET			—	○	○	—	○	—
FX2N-48ER-DS			—	○	○	—	○	—
FX2N-48ET-DSS			—	○	○	—	○	—
FX2N-48ER-D			—	○	○	—	○	—
FX2N-48ET-D			—	○	○	—	○	—
FX2N-48ER-UA1/UL			—	○	○	—	○	—
◆Input/output mixed block								
FX2N-8ER-ES/UL	4 points	4 points	—	○	○	◇	○	◇
FX2N-8ER			—	○	○	◇	○	◇
FX2NC-64ET	32 points	32 points	—	—	—	○	—	○
◆Input block								
FX2N-8EX-ES/UL	8 points	—	—	○	○	◇	○	◇
FX2N-8EX			—	○	○	◇	○	◇
FX2N-8EX-UA1/UL			—	○	○	◇	○	◇
FX2N-16EX-ES/UL	16 points	—	—	○	○	◇	○	◇
FX2N-16EX			—	○	○	◇	○	◇
FX2N-16EX-C			—	○	○	◇	○	◇
FX2N-16EXL-C			—	○	○	◇	○	◇
FX2NC-16EX-T-DS			—	—	—	○	—	○
FX2NC-16EX-DS			—	—	—	○	—	○
FX2NC-16EX			—	—	—	○	—	○
FX2NC-16EX-T			—	—	—	○	—	○
FX2NC-32EX	32 points	—	—	—	—	○	—	○
FX2NC-32EX-DS			—	—	—	○	—	○
◆Output block								
FX2N-8EYR-ES/UL	—	8 points	—	○	○	◇	○	◇
FX2N-8EYR-S-ES/UL			—	○	○	◇	○	◇
FX2N-8EYT-ESS/UL			—	○	○	◇	○	◇
FX2N-8EYR			—	○	○	◇	○	◇
FX2N-8EYT			—	○	○	◇	○	◇
FX2N-8EYT-H	—	16 points	—	○	○	◇	○	◇
FX2N-8EYR-S-ES/UL			—	○	○	◇	○	◇
FX2N-16EYR-ES/UL			—	○	○	◇	○	◇
FX2N-16EYT-ESS/UL			—	○	○	◇	○	◇
FX2N-16EYR			—	○	○	◇	○	◇
FX2N-16EYT			—	○	○	◇	○	◇
FX2N-16EYT-C			—	○	○	◇	○	◇
FX2N-16EYS			—	○	○	◇	○	◇
FX2NC-16EYR-T	—	32 points	—	—	—	○	—	○
FX2NC-16EYR-T-DS			—	—	—	○	—	○
FX2NC-16EYT			—	—	—	○	—	○
FX2NC-16EYT-DSS			—	—	—	○	—	○
FX2NC-32EYT			—	—	—	○	—	○
FX2NC-32EYT-DSS	—	—	—	—	—	○	—	○
◆Analog input/output								
FX2N-5A	4 ch	1 ch	—	○	○	◇	○	◇
FX2N-2DA	—	2 ch	—	○	○	◇	○	◇
FX3U-4DA	—	4 ch	—	○	○	◇	○	*9
FX2N-2AD	2 ch	—	—	○	○	◇	○	◇
FX3U-4AD	4 ch	—	—	○	○	◇	○	*9
FX3UC-4AD	4 ch	—	—	—	—	○	—	○
FX2N-8AD	8 ch	—	—	○	○	◇	○	◇
◆Temperature sensor input block								
FX2N-2LC	2 ch temperature regulator		—	○	○	◇	○	◇
FX3U-4LC	4 ch temperature regulator		—	○	○	◇	○	*1
◆High-speed counter block								
FX2N-1HC	1 ch 2-phase 50 kHz		—	—	—	—	○	*1
FX2NC-1HC	1 ch 2-phase 50 kHz		—	—	—	—	—	○
FX3U-2HC	2 ch 2-phase 200 kHz		—	—	—	—	○	*1

Model	Specifications		Compatible PLC					
	Input	Output	FX3S	FX3G	FX3GE	FX3GC	FX3U	FX3UC
◆Positioning related module/block								
FX3U-1PG	1-axis 200 kHz	—	—	—	—	—	○	*1
FX2N-10PG	1-axis 1 M kHz	—	—	—	—	—	○	◇
FX2N-10GM	1-axis 200 kHz	—	—	—	—	—	○	◇
FX2N-20GM	2-axis 200 kHz	—	—	—	—	—	○	◇
FX3U-20SSC-H	2-axis SSCNET III	—	—	—	—	—	○	*1
FX2N-1RM-E-SET	Cam switch	—	—	—	—	—	○	◇
◆Communication block								
FX-485PC-IF-SET	Signal exchange	—	○	○	○	○	○	○
FX2N-232IF	1 ch RS-232C communication	—	—	—	—	—	○	◇
FX3U-ENET	Ethernet	—	○	○	◇	*2	*2	
FX3U-ENET-L	Ethernet	—	—	—	—	—	*2	*2
FX2N-64CCL-M	CC-Link master station	—	○	○	◇	○	*1	
FX3U-64CCL	Intelligent device station	—	○	○	◇	○	*1	
FX2N-32CCL	Intelligent device station	—	○	○	◇	○	◇	
FX2N-64CL-M	CC-Link/LT master station	—	○	○	◇	○	◇	
FX3U-128ASL-M	AnyWireASLINK master station	—	○	○	◇	○	*1	
◆Communication adapter								
FX3U-232ADP-MB	RS-232C (MODBUS®) communication	—	★	☆	○	○	●	●
FX3U-485ADP-MB	RS-485 (MODBUS®) communication	—	★	☆	○	○	●	●
FX3U-ENET-ADP	Ethernet	—	*10	*7	—	*7	*8	*8
◆Analog, temperature sensor adapter								
FX3U-3A-ADP	2 ch	1 ch	★	*3	○	○	*4	*4
FX3U-4A-ADP	—	4 ch	★	☆	○	○	●	○
FX3U-4AD-ADP	4 ch	—	★	☆	○	○	●	○
FX3U-4AD-PT-ADP	4 ch	—	★	☆	○	○	●	○
FX3U-4AD-PTW-ADP	4 ch	—	★	☆	○	○	●	○
FX3U-4AD-TC-ADP	4 ch	—	★	☆	○	○	●	○
FX3U-4AD-PNK-ADP	4 ch	—	★	☆	○	○	●	○
◆High-speed input/output adapter								
FX3U-4HSX-ADP	4 ch	—	—	—	—	—	○	—
FX3U-2HSY-ADP	—	2 ch	—	—	—	—	○	—
◆CF card special adapter								
FX3U-CF-ADP	For CF card connection	—	—	—	—	—	*4	*4
◆FX3S interface adapter								
FX3S-CNV-ADP	For adapter connection	—	○	—	—	—	—	—
◆FX3G interface adapter								
FX3G-CNV-ADP	For adapter connection	—	—	○	—	—	—	—
◆Expansion board for FX3S, FX3G[E]								
FX3G-8AV-BD	8-point volume	—	○	*5	○	—	—	—
FX3G-232-BD	1 ch RS-232C communication	—	○	○	○	—	—	—
FX3G-422-BD	1 ch RS-422C communication	—	○	○	○	—	—	—
FX3G-485-BD	1 ch RS-485C communication	—	○	○	○	—	—	—
FX3G-485-BD-RJ	RS-485C communication	—	○	○	○	—	—	—
FX3G-4EX-BD	4 points	—	*5	*1	○	—	—	—
FX3G-2EYT-BD	—	2 points	*5	*1	○	—	—	—
FX3G-2AD-BD	2 ch	—	○	*5	○	—	—	—
FX3G-1DA-BD	—	1 ch	○	*5	○	—	—	—
◆Expansion board for FX3U								
FX3U-8AV-BD	8-point volume	—	—	—	—	—	*6	—
FX3U-232-BD	1 ch RS-232C communication	—	—	—	—	—	○	—
FX3U-422-BD	1 ch RS-422C communication	—	—	—	—	—	○	—
FX3U-485-BD	1 ch RS-485C communication	—	—	—	—	—	○	—
FX3U-USB-BD	USB connection	—	—	—	—	—	○	—
FX3U-CNV-BD	For adapter connection	—	—	—	—	—	○	—
◆Battery								
FX3U-32BL	For FX3G[C], FX3U[C], etc.	—	—	○	○	○	○	○

- *1: Main unit Ver. 2.20 and above (FX3UC requires FX2NC-CNV-IF or FX3UC-1PS-5V).
- *2: Main unit Ver. 2.21 and above (FX3UC requires FX2NC-CNV-IF or FX3UC-1PS-5V).
- *3: Main unit Ver. 1.20 and above and FX3G-CNV-ADP are required.
- *4: Expansion board is required to connect main unit Ver. 2.61 and above FX3U.
- *5: Main unit Ver. 1.10 and above.
- *6: Supported with main unit Ver. 2.70.
- *7: Main unit Ver. 2.00 and above, and FX3G-CNV-ADP are required (FX3GC is not required).
- *8: Expansion board is required to connect main unit Ver. 3.10 and above FX3U.
- *9: Main unit Ver. 1.30 and above, and FX2NC-CNV-IF or FX3UC-1PS-5V are required.
- *10: FX3U-ENET-ADP Ver. 1.20 and above, and FX3S-CNV-ADP are required.

◇: FX2NC-CNV-IF or FX3UC-1PS-5V required ☆: FX3G-CNV-ADP required
 ●: Extension board required ★: FX3S-CNV-ADP required

◆ Extension and peripheral devices, etc.

Model	Specifications		Compatible PLC					
	Input	Output	FX3S	FX3G	FX3GE	FX3GC	FX3U	FX3UC
◆ Extension power supply unit								
FX3UC-1PS-5V	For FX3GC, FX3UC	Extension power supply	—	—	—	○	—	○
FX3U-1PSU-5V	For FX3G, FX3GE, FX3U	Extension power supply	—	○	○	—	○	—
◆ Extension block extension cable								
FX3N-30EC	30 cm	Extension block extension length	—	○	○	◇	○	◇
FX3N-65EC	65 cm	Extension block extension length	—	○	○	◇	○	◇
◆ Connector converter								
FX2N-CNV-BC	Extension cable relay		—	○	○	◇	○	◇
FX2N-CNV-IF	Holder for external mounting		—	—	—	○	—	○
◆ Display module								
FX3S-5DM	Setting display		*4	—	—	—	—	—
FX3G-5DM	Setting display		—	*1	○	—	—	—
FX3U-7DM	Setting display		—	—	—	○	—	—
FX3U-7DM-HLD	Holder for external mounting		—	—	—	—	○	—
◆ Memory Cassettes								
FX3G-EEPROM-32L	With 32 k loader function		○	○	○	—	—	—
FX3U-FLROM-16	16 k step		—	—	—	○	○	○
FX3U-FLROM-64	64 k step		—	—	—	—	○	○
FX3U-FLROM-64L	With 64 k loader function		—	—	—	—	○	○
FX3U-FLROM-1M	64 k source information 1.3 MB		—	—	—	—	*2	*2
◆ Power cables								
FX2N-100MPCB	For main unit		—	—	—	○	—	○
FX2N-100BPCB	For extension		—	—	—	○	—	○
FX2N-10BPCB1	For input extension blocks		—	—	—	○	—	○
◆ Terminal block								
FX-16E-TB	Depends on connection source		—	○	○	○	○	○
FX-32E-TB	Depends on connection source		—	○	○	○	○	○
FX-16EYR-TB	—	16 points	—	○	○	○	○	○
FX-16EYS-TB	—	16 points	—	○	○	○	○	○
FX-16EYT-TB	—	16 points	—	○	○	○	○	○
FX-16EX-A1-TB	16 points	—	—	○	○	○	○	○
FX-16E-TB/UL	Depends on connection source		—	○	○	○	○	○
FX-32E-TB/UL	Depends on connection source		—	○	○	○	○	○
FX-16EYR-ES-TB/UL	—	16 points	—	○	○	○	○	○
FX-16EYS-ES-TB/UL	—	16 points	—	○	○	○	○	○
FX-16EYT-ES-TB/UL	—	16 points	—	○	○	○	○	○
FX-16EYT-ESS-TB/UL	—	16 points	—	○	○	○	○	○
◆ Input/output connection cable								
FX-16E-150CAB	1.5 m	Flat cable between TB-FX	—	*3	*3	○	*3	○
FX-16E-300CAB	3.0 m	Flat cable between TB-FX	—	*3	*3	○	*3	○
FX-16E-500CAB	5.0 m	Flat cable between TB-FX	—	*3	*3	○	*3	○
FX-32E-150CAB	1.5 m	Flat cable between TB-FX	—	—	—	*3	—	*3
FX-32E-300CAB	3.0 m	Flat cable between TB-FX	—	—	—	*3	—	*3
FX-32E-500CAB	5.0 m	Flat cable between TB-FX	—	—	—	*3	—	*3
FX-16E-500CAB-S	5.0 m	FX side connector loose wire	—	*3	*3	○	*3	○
FX-16E-150CAB-R	1.5 m	Round cable between TB-FX	—	*3	*3	○	*3	○
FX-16E-300CAB-R	3.0 m	Round cable between TB-FX	—	*3	*3	○	*3	○
FX-16E-500CAB-R	5.0 m	Round cable between TB-FX	—	*3	*3	○	*3	○
◆ Input/output connector								
FX2C-I/O-CON	20-pin	Connector 10-piece set	—	*3	*3	○	*3	○
FX2C-I/O-CON-S	20-pin	Connector 5-piece set enclosed (for 0.3 mm ²)	—	*3	*3	○	*3	○
FX2C-I/O-CON-SA	20-pin	Connector 5-piece set enclosed (for 0.5 mm ²)	—	*3	*3	○	*3	○
FX-I/O-CON2	40-pin	Connector 2-piece set enclosed	—	—	—	*3	—	*3
FX-I/O-CON2-S	40-pin	Connector 2-piece set enclosed (for 0.3 mm ²)	—	—	—	*3	—	*3
FX-I/O-CON2-SA	40-pin	Connector 2-piece set enclosed (for 0.5 mm ²)	—	—	—	*3	—	*3

*1: Supported with main unit Ver. 1.10 and above

*2: Supported with main unit Ver. 3.00 and above

*3: Refer to each PLC manual for details on the products that can be used.

*4: Supported with main unit Ver. 1.20 and above

*5: Refer to the product manual for details on the Windows® compatible operating system.

*6: FX-30P Ver. 1.50 and above.

*7: FX-30P Ver. 1.30 and above.

◆ Sequence programs and peripheral devices, etc.

Model	Specifications		Compatible PLC					
	Input	Output	FX3S	FX3G	FX3GE	FX3GC	FX3U	FX3UC
◆ MELSOFT GX series programming software								
SW□DND-GXW2-E	GX Works2		○	○	○	○	○	○
SW□D5C-GPPW-E	GX Developer		—	○	○	○	○	○
◆ MELSOFT MX series integrated data link software								
SW1D5C-ACT-E	MX Component		○	○	○	○	○	○
SW1D5C-SHEET-E	MX Sheet		○	○	○	○	○	○
SW1D5C-SHEETSET-E	MX Works		○	○	○	○	○	○
◆ RS-232C cable for personal computer								
F2-232CAB-1	3 m	D-sub 9-pin female ⇔ D-sub 25-pin male	○	○	○	○	○	○
FX-232CAB-1	3 m	D-sub 9-pin female ⇔ D-sub 9-pin female	○	○	○	○	○	○
F2-232CAB	3 m	D-sub 25-pin male ⇔ D-sub 25-pin male	○	○	○	○	○	○
F2-232CAB-2	3 m	Half-pitch 14-pin ⇔ D-sub 25-pin male	○	○	○	○	○	○
FX-232CAB-2	3 m	Half-pitch 14-pin ⇔ D-sub 9-pin female	○	○	○	○	○	○
◆ RS-422 cable for PLC								
FX-422CAB0	1.5 m	FX round connector ⇔ FX-232AWC-H	○	○	○	○	○	○
◆ RS-232C/RS-422 converter								
FX-232AWC-H	Between FX-personal computer		○	○	○	○	○	○
◆ USB/RS-422 converter								
FX-USB-AW	FX-personal computer		—	—	—	—	○	○
◆ Handy programming panel (HPP)								
FX-30P	HPP unit, cable		*6	○	○	*7	○	○
◆ PLC connection cable for FX-30P								
FX-20P-CAB0	1.5 m	FX round connector	○	○	○	○	○	○
FX-20P-CADP	0.3 m	FX round connector ⇔ FX square connector	○	○	○	○	○	○

◆ Peripheral devices and connection cables for positioning

Model	Specifications		Compatible Models		
			FX2N-10GM	FX2N-20GM	FX2N-20SSC-H
◆ Personal computer software*5					
SW1D5C-FXSSC-E	FX Configurator-FP		—	—	○
FX-PCS-VPS/WIN-E	For FX2N-10GM/20GM		○	○	—
◆ Teaching panel					
E-20TP-SET0	3 m	With cable	○	○	—
E-20TP-CAB0	3 m	Cable	○	○	—
◆ Connection cable for servo					
E-GMH-200CAB	2 m	For MR-H	○	○	—
E-GMJ-200CAB	2 m	For MR-J	○	○	—
E-GMJ2-200CAB1A	2 m	For MR-J2(S)	○	○	—
E-GMC-200CAB	2 m	For MR-C	○	○	—
E-GM-200CAB	2 m	With GM side connector	○	○	—
◆ Extension cable					
FX2N-GM-5EC	55 mm	Connection between GM-FX	○	○	—
FX2N-GM-65EC	65 cm	Connection between GM-FX	○	○	—

List of models

Voltage and current input/output

	1 to 3 ch	4 to 5 ch	8 ch
Analog input	FX3s  FX3s-30M□/ES□-2AD Resolution at 0 to 10 V DC input: 10 mV	FX3s FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4AD-ADP - Resolution at 0 to 10 V DC input: 2.5 mV - Resolution at 4 to 20 mA DC input: 8 μA	
	FX3s FX3G FX3GE  FX3G-2AD-BD - Resolution at 0 to 10 V DC input: 2.5 mV - Resolution at 4 to 20 mA DC input: 8 μA	FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4AD* - Resolution at -10 to 10 V DC input: 0.32 mV - Resolution at -20 to 20 mA DC input: 1.25 μA	
	FX3G FX3GE FX3GC FX3U FX3UC  FX2N-2AD* - Resolution at 0 to 10 V DC input: 2.5 mV - Resolution at 4 to 20 mA DC input: 4 μA *Same characteristics for both 2 ch	FX3GC FX3UC  FX3UC-4AD - Resolution at -10 to 10 V DC input: 312.5 μV (0.3125 mV) - Resolution at -20 to 20 mA DC input: 1.25 μA	FX3G FX3GE FX3GC FX3U FX3UC  FX2N-8AD* - Resolution at -10 to 10 V DC input: 0.63 mV - Resolution at -20 to 20 V DC input: 2.5 μA
	FX3s FX3G FX3GE FX3GC FX3U FX3UC 2 ch  FX3U-3A-ADP - Resolution at 0 to 10 V DC output: 2.5 mV - Resolution at 4 to 20 mA DC output: 4 μA	FX3G FX3GE FX3GC FX3U FX3UC 4 ch  FX2N-5A* - Resolution at -10 to 10 V DC output: 50 mV - Resolution at 0 to 20 mA DC output: 20 μA	
Analog output	FX3s FX3G FX3GE  FX3G-1DA-BD - Resolution at 0 to 10 V DC output: 2.5 mV - Resolution at 4 to 20 mA DC output: 8 μA	FX3s FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4DA-ADP - Resolution at 0 to 10 V DC output: 2.5 mV - Resolution at 4 to 20 mA DC output: 4 μA	
	FX3G FX3GE FX3GC FX3U FX3UC  FX2N-2DA* - Resolution at 0 to 10 V DC output: 2.5 mV - Resolution at 4 to 20 mA DC output: 4 μA *Same characteristics for both 2 ch	FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4DA* - Resolution at -10 to 10 V DC output: 0.32 mV - Resolution at 0 to 20 mA DC output: 0.63 μA	

*: FX2Nc-CNV-IF or FX3Uc-1PS-5V is required to be connected to the FX3GC/FX3UC main unit.

List of models

Temperature sensor input

	Temperature input		Temperature control	
	4 ch	8 ch	2 ch	4 ch
Thermocouple	FX3S FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4AD-TC-ADP • K, J types supported • Example of measurement temperature range and resolution K type : -100 to 1000°C (0.4°C) J type : -100 to 600°C (0.3°C)	FX3G FX3GE FX3GC FX3U FX3UC  FX2N-8AD* • K, J, T types supported • Example of measurement temperature range and resolution K type : -100 to 1200°C (0.1°C) J type : -100 to 600°C (0.1°C)	FX3G FX3GE FX3GC FX3U FX3UC  FX2N-2LC* Production discontinued in March 2018 • K, J, R, S, E, T, B, N, PL II, W5Re/W26Re, U, L types supported • Example of measurement temperature range and resolution K type : -100 to 400°C (1°C) J type : -100 to 800°C (0.1°C)	FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4LC* • K, J, R, S, E, T, B, N, PL II, W5Re/W26Re, U, L types supported • Example of measurement temperature range and resolution K type : -100 to 1300°C (1°C) J type : -100 to 800°C (0.1°C)
	FX3S FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4AD-PT-ADP • Pt100 supported • Example of measurement temperature range and resolution -50 to 250°C (0.1°C)		FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4AD-PTW-ADP • Pt100 supported • Example of measurement temperature range and resolution -100 to 600°C (0.2 to 0.3°C)	FX3S FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4AD-PNK-ADP • Pt1000, Ni1000 supported • Example of measurement temperature range and resolution Pt1000: -50 to 250°C (0.1°C) Ni1000: -40 to 110°C (0.1°C)
Resistance temperature detector			FX3G FX3GE FX3GC FX3U FX3UC  FX2N-2LC* Production discontinued in March 2018 • JPt100, Pt100 supported • Example of measurement temperature range and resolution JPt100 : -200 to 500°C (0.1°C) Pt100 : -200 to 600°C (0.1°C)	FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4LC* • Pt100, JPt100, Pt1000 supported • Example of measurement temperature range and resolution Pt100 : -200 to 600°C (0.1°C) Pt1000: -200 to 650°C (0.1°C)
			FX3G FX3GE FX3GC FX3U FX3UC  FX2N-2LC* Production discontinued in March 2018 • NPN open collector transistor output 2 points • Standard PID control	FX3G FX3GE FX3GC FX3U FX3UC  FX3U-4LC* • NPN open collector transistor output 4 points • Standard PID control • Heating/cooling PID control

*: FX2NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3GC/FX3UC main unit.

List of models

1-axis		2-axis				3-axis							
Main unit (Built-in positioning)		FX3u  FX3u-2HSY-ADP - Up to 1 Mpps - Differential line driver output - PULSE/SIGN mode, CW/CCW mode				FX3s FX3G FX3GE FX3GC  FX3s, FX3G 14/24-point type, FX3GE 24-point type, FX3GC main unit Transistor output type - Up to 200 kpps - Transistor output - PULSE/SIGN mode				FX3G FX3GE FX3u FX3uc  FX3G 40/60-point type, FX3GE 40-point type, FX3u/FX3uc main unit Transistor output type - Up to 200 kpps - Transistor output - PULSE/SIGN mode			
	High-speed output special adapter												
Positioning module	FX3u FX3uc  FX3u-1PG - Up to 200 kpps - Transistor output - PULSE/SIGN mode, CW/CCW mode	FX3u FX3uc  FX2N-10PG* - Up to 1 Mpps - Differential line driver output - PULSE/SIGN mode, CW/CCW mode	FX3u FX3uc  FX2N-20GM* - Up to 200 kpps - Transistor output - PULSE/SIGN mode, CW/CCW mode - Positioning software: FX-PCS-VPS/WIN-E										
	Pulse output block	FX3u FX3uc  FX2N-10GM* - Up to 200 kpps - Transistor output - PULSE/SIGN mode, CW/CCW mode - Positioning software: FX-PCS-VPS/WIN-E											
SSCNET III compatible positioning block		FX3u FX3uc  FX3u-20SSC-H* - Linear interpolation, circular interpolation - Parameter setting software: FX Configurator-FP											
Angle control unit	FX3u FX3uc  FX2N-1RM-E-SET* - No. of cam output points: Max. 48 points - Control resolution: 720 divisions (0.5 degree) or 360 divisions (1 degree) per revolution - Response rotation speed: 415 r/min/0.5 degrees or 830 r/min/1 degree												

*: FX2NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3uc main unit.

List of models

		Number of channels	Input format/ input voltage	Type/max. frequency
Main unit (Built-in high-speed counter)	FX3S  FX3S Main unit	Max. 6 ch 1-phase 1-input Max. 60 kHz: 2 ch Max. 10 kHz: 4 ch	Open collector 24 V DC	1-phase 1-input : 60 kHz*1 1-phase 2-input : 60 kHz*1 2-phase 2-input : 30 kHz*1 [multiplied by 1]
Main unit (Built-in high-speed counter)	FX3G FX3GE FX3GC  FX3G/FX3GE/FX3GC Main unit	Max. 6 ch 1-phase 1-input Max. 60 kHz: 4 ch Max. 10 kHz: 2 ch	Open collector 24 V DC	1-phase 1-input : 60 kHz*1 1-phase 2-input : 60 kHz*1 2-phase 2-input : 30 kHz*1 [multiplied by 1]
Main unit (Built-in high-speed counter)	FX3U FX3UC  FX3U/FX3UC Main unit	Max. 8 ch 1-phase 1-input Max. 100 kHz: 6 ch Max. 10 kHz: 2 ch	Open collector 24 V DC	1-phase 1-input : 100 kHz*1 1-phase 2-input : 100 kHz*1 2-phase 2-input : 50 kHz*1 [multiplied by 1] 2-phase 2-input : 50 kHz*1 [multiplied by 4]
High-speed counter block	FX3U FX3UC  FX3U-2HC*2	Max. 2 ch	Open collector Differential line driver 5 V to 24 V DC	1-phase 1-input : 200 kHz 1-phase 2-input : 200 kHz 2-phase 2-input : 200 kHz [multiplied by 1] 2-phase 2-input : 100 kHz [multiplied by 2] 2-phase 2-input : 50 kHz [multiplied by 4]
High-speed input special adapter	FX3U  FX3U-4HSX-ADP	Max. 4 ch (1-phase 1-input)	Differential line driver 5 V DC	1-phase 1-input : 200 kHz 1-phase 2-input : 200 kHz 2-phase 2-input : 100 kHz [multiplied by 1] 2-phase 2-input : 100 kHz [multiplied by 4]
High speed counter blocks	FX3U FX3UC FX2NC  FX2N-1HC*2 FX2NC-1HC	Max. 1 ch	Open collector Differential line driver 5 V to 24 V DC	1-phase 1-input : 50 kHz 1-phase 2-input : 50 kHz 2-phase 2-input : 50 kHz [multiplied by 1] 2-phase 2-input : 25 kHz [multiplied by 2] 2-phase 2-input : 12.5 kHz [multiplied by 4]

*1: The max. frequency varies according to the high-speed counter No. The number of channels and general frequency may be restricted by the usage conditions. Refer to each manual for details.

*2: FX2NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3UC main unit.

List of models

Open Field Network

	Master station	Remote device station	Intelligent device station
CC-Link	FX3GFX3GEFX3GCFX3UFX3UC CC-Link V2  FX3U-16CCCL-M* • Max. 16 stations • Remote I/O station: 8 maximum/256 points or less • Remote device stations + intelligent device stations: 8 maximum/256 points or less • Assign link devices with program	FX3GFX3GEFX3GCFX3UFX3UC CC-Link  FX2N-32CCCL* • 1 to 4 stations occupied • Assign link devices with program	FX3GFX3GEFX3GCFX3UFX3UC CC-Link V2  FX3U-64CCCL* • 1 to 4 stations occupied • Assign link devices with program
CC-Link/LT	FX3GFX3GEFX3GCFX3UFX3UC CC-Link/LT  FX2N-64CL-M* • Automatically assign link devices with CONFIG mode		

*: FX2NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3G/FX3UC main unit.

List of models

Sensor Solution

Master station

AnyWireASLINK

FX3G FX3GE FX3GC FX3U FX3UC



FX3U-128ASL-M*1

- Max. 128 modules/128 points

AnyWire
ASLINK

MODBUS®

RS-485

RS-232C

FX3S FX3G FX3GE FX3GC FX3U FX3UC



FX3U-485ADP-MB

- MODBUS® RTU supported
- MODBUS® ASCII supported (FX3U/FX3UC only)
- Master/slave selectable
- Max. 32 stations for master
- Transmission distance 500 m or less

1 ch
for master
or slave

FX3S FX3G FX3GE FX3GC FX3U FX3UC



FX3U-232ADP-MB

- MODBUS® RTU supported
- MODBUS® ASCII supported (FX3U/FX3UC only)
- Master/slave selectable
- Max. 1 station for master
- Transmission distance 15 m or less

MODBUS®

Ethernet

FX3G FX3GE FX3GC FX3U FX3UC



FX3U-ENET*1

Max.
8 connections

FX3U FX3UC



FX3U-ENET-L*2

Max.
4 connections

FX3S FX3G FX3GC FX3U FX3UC



FX3U-ENET-ADP

Max.
4 connections

FX3GE



FX3GE Main unit
(Built-in Ethernet port)

Supported protocol

- Fixed buffer communication (non-procedural communication)
- Mail send/receive function (FX3U-ENET only)
- MELSOFT connection
- MC protocol (1E frame)
- Mail send function (FX3U-ENET-L only)

Supported protocol

- MELSOFT connection
- MC protocol (1E frame)
- Data monitoring

Ethernet

*1: FX2NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3GC/FX3UC main unit.

*2: FX2NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3UC main unit.

List of models

Serial Communication

RS-485

Inverter communication

FX3U



FX3U-485-BD

FX3S FX3G FX3GE



FX3G-485-BD

FX3S FX3G FX3GE



FX3G-485-BD-RJ

FX3S FX3G FX3GE



FX3G-485-BD-RJ

FX3S FX3G FX3GE



FX3U-485ADP-MB

8
modules/ch

- Max. 8 modules
- Transmission distance 50 m or less

- Max. 8 modules
- Transmission distance 500 m or less

N:N network

FX3U



FX3U-485-BD

FX3S FX3G FX3GE



FX3G-485-BD

FX3S FX3G FX3GE



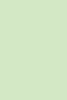
FX3G-485-BD-RJ

FX3S FX3G FX3GE



FX3G-485-BD-RJ

FX3S FX3G FX3GE



FX3U-485ADP-MB

1 : n
(n=1 to 7)

- Max. 8 modules
- Can be used with FX5
- Transmission distance 50 m or less

- Max. 8 modules
- Can be used with FX5
- Transmission distance 500 m or less

Parallel link

FX3U



FX3U-485-BD

FX3S FX3G FX3GE



FX3G-485-BD

FX3S FX3G FX3GE



FX3G-485-BD-RJ

FX3S FX3G FX3GE



FX3G-485-BD-RJ

FX3S FX3G FX3GE



FX3U-485ADP-MB

1 : 1

- 1:1 between same CPU series
- Transmission distance 50 m or less

- 1:1 between same CPU series
- Transmission distance 500 m or less

RS-485

Computer Link

FX3U



FX3U-485-BD

FX3S FX3G FX3GE



FX3G-485-BD

FX3S FX3G FX3GE



FX3G-485-BD-RJ

FX3S FX3G FX3GE

FX3G-485-BD-RJ



FX3U-485ADP-MB

- 1C frame supported (with restrictions)
- Transmission distance 50 m or less

- 1C frame supported (with restrictions)
- Transmission distance 500 m or less

RS-232C

FX3U



FX3U-232-BD

FX3S FX3G FX3GE



FX3G-232-BD

FX3S FX3G FX3GE

FX3G-232-BD



FX3U-232ADP-MB

- 1C frame supported (with restrictions)
- Transmission distance 15 m or less

List of models

Serial Communication

RS-485

Non-protocol
communication

- Send/receive with RS, RS2 instructions
- Transmission distance 50 m or less

FX3S FX3G FX3GE FX3GC FX3U FX3UC



FX3U-485ADP-MB

- Send/receive with RS, RS2 instructions
- Transmission distance 500 m or less

RS-232C



- Send/receive with RS, RS2 instructions
- Transmission distance 15 m or less

FX3U FX3UC



FX2N-232IF*

- Send/receive to and from buffer memory with FROM/TO instructions
- Transmission distance 15 m or less

RS-422/485

Programming
communication

- Transmission distance: depends on connected devices

RS-232C



- Transmission distance 15 m or less

USB



FX3U-USB-BD

FX3S/FX3G/FX3GE/FX3GC
(Built-in USB port)

*: FX2NC-CNV-IF or FX3UC-1PS-5V is required to be connected to the FX3UC main unit.