MELSEC-F Series FX3U/FX3UC Main Units and Configuration



FX3U - Top of the Line

Controllable I/O: 16 - 384 points with CC-Link or AS-i remote I/O Main Unit I/O: 16/32/48/64/80/128 points

- · Exchangeable communication expansion boards that mount directly into the main unit (USB, RS-232C, RS-422, RS-485)
- Simultaneous memory cassette and display module mounting available
- · Integrated real-time clock

Product Details

All-in-one CPU, power supply and I/O. Includes many upgraded features from the FX2N, including high expandability using Expansion Boards and Special Adapters to add functionality.

Fast Instruction Times

Basic Instructions: 0.065 µs / instruction (Contact Instruction) Applied Instructions: 0.642 µs / instruction (MOV Instruction)

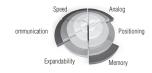


64,000 steps of built-in program memory Flash Memory Cassettes with loader functionality also available

Large Device Memory

7,680 points Auxiliary Relays: 512 points Timers: Counters: 235 points Data Registers: 8.000 points **Extension Registers:** 32,768 points Extension File Registers: 32,768 points

(with optional memory cassette)





FX3UC - Slim Fit

Controllable I/O: 16 - 384 points with CC-Link or AS-i remote I/O Main Unit I/O: 16/32/64/96 points

- · Ultra-compact design featuring connector-type wiring for installation space optimization
- · Integrated real-time clock
- · Relay output

Product Details

Ultra-compact size main unit including many upgraded features from the FX2NC, including high expandability using Special Adapters to add functionality.

Fast Instruction Times

Basic Instructions: 0.065µs / instruction (Contact Instruction) Applied Instructions: 0.642µs / instruction (MOV Instruction)

Large Memory

64,000 steps of built-in program memory Flash Memory Cassettes with loader functionality also available

Large Device Memory

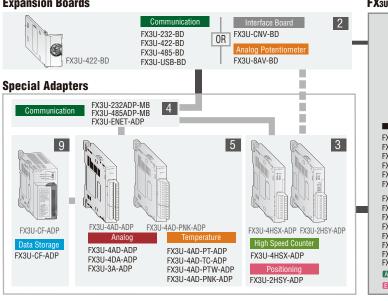
Auxiliary Relays: 7,680 points Timers: 512 points Counters: 235 points Data Registers: 8,000 points Extension Registers: 32,768 points Extension File Registers: 32,768 points

(with optional memory cassette)

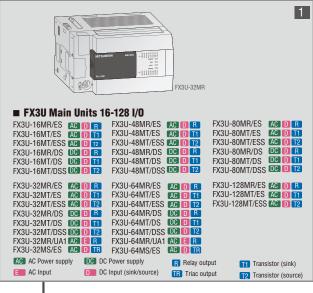
Main Unit Configuration



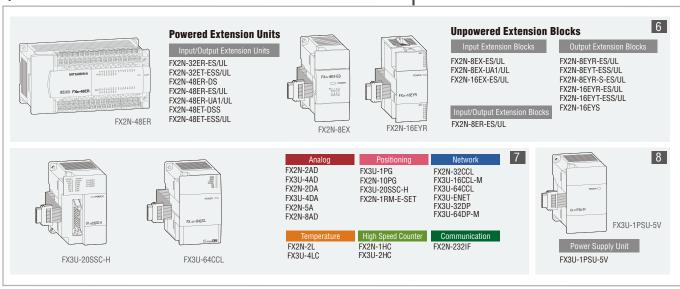








Special Function Modules



Optional Equipment and Software

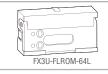


■ GOT GOT1000 GT10/GT11/GT12/GT14/GT16

■ Interface Converter FX-USB-AW FX-232AWC-H

■ Software GX Developer GX Works2 GX Works2 FX

Accessories



■ Memory Cassettes FX3U-FLROM-64 FX3U-FLROM-16 FX3U-FLROM-64L FX3U-FLROM-1M



■ Display Modules

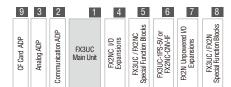


FX3II-7DM-HI D

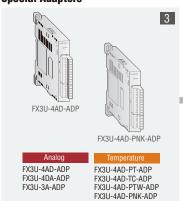
■ Extension Cables FX0N-30EC (30cm) FX0N-65EC (65cm)

■ PLC Bus Connector FX2N-CNV-RC





Special Adapters

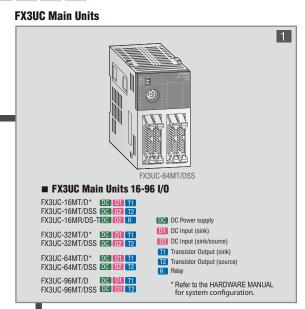


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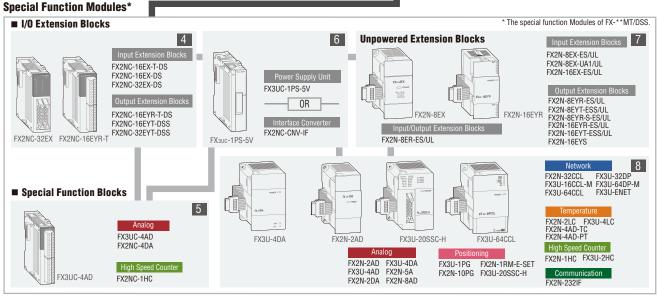
FX3U-CF-ADP



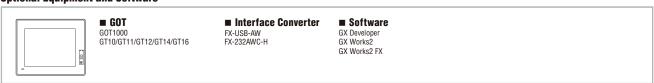
FX3U-ENET-ADP



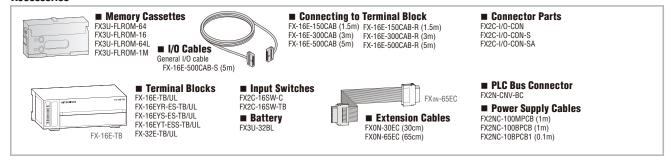




Optional Equipment and Software



Accessories



Main Unit Options

FX3U

FX3U Main Units with 16 I/O

Model Number	FX3U-16MR/DS	FX3U-16MR/ES	FX3U-16MT/DSS	FX3U-16MT/DS	FX3U-16MT/ESS	FX3U-16MT/ES			
Stocked Item	S	S	S	S	S	S			
Certification	UL • cUL • CE (EMC)	UL • CLL • CE (EMC)							
Integrated Inputs/Outputs	16	16	16	16	16	16			
Power Supply	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC			
Integrated Inputs	8	8	8	8	8	8			
Integrated Outputs	8	8	8	8	8	8			
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)			
Power Consumption (W)	25	30	25	25	30	30			
Weight (kg)	0.60	0.60	0.60	0.60	0.60	0.60			
Dimensions (W x H x D) mm	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86	130 x 90 x 86			

FX3U Main Units with 32 I/O

Model Number	FX3U-32MR/DS	FX3U-32MR/ES	FX3U-32MT/DSS	FX3U-32MT/DS	FX3U-32MT/ESS	FX3U-32MT/ES	FX3U-32MR/UA1	FX3U-32MS/ES			
Stocked Item	S	S	S	S	S	S	S	S			
Certification	UL • cUL • CE (EN	UL • CUL • CE (EMC)									
Integrated Inputs/Outputs	32	32	32	32	32	32	32	32			
Power Supply	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC	100-240VAC	100-240VAC			
Integrated Inputs	16	16	16	16	16	16	16	16			
Integrated Outputs	16	16	16	16	16	16	16	16			
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Relay	Triac			
Power Consumption (W)	30	35	30	30	35	35	35	35			
Weight (kg)	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65			
Dimensions (W x H x D) mm	150 x 90 x 86	150 x 90 x 86	150 x 90 x 86	150 x 90 x 86	150 x 90 x 86	150 x 90 x 86	182 x 90 x 86	150 x 90 x 86			

FX3U Main Units with 48 I/O

Model Number	FX3U-48MR/DS	FX3U-48MR/ES	FX3U-48MT/DSS	FX3U-48MT/DS	FX3U-48MT/ESS	FX3U-48MT/ES				
Stocked Item	S	S	S	S	S	S				
Certification	UL • cUL • CE (EMC)	UL • CUL • CE (EMC)								
Integrated Inputs/Outputs	48	48	48	48	48	48				
Power Supply	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC				
Integrated Inputs	24	24	24	24	24	24				
Integrated Outputs	24	24	24	24	24	24				
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)				
Power Consumption (W)	35	40	35	35	40	40				
Weight (kg)	0.85	0.85	0.85	0.85	0.85	0.85				
Dimensions (W x H x D) mm	182 x 90 x 86	182 x 90 x 86	182 x 90 x 86	182 x 90 x 86	182 x 90 x 86	182 x 90 x 86				

FX3U Main Units with 64 I/O

Model Number	FX3U-64MR/DS	FX3U-64MR/ES	FX3U-64MT/DSS	FX3U-64MT/DS	FX3U-64MT/ESS	FX3U-64MT/ES	FX3U-64MR/UA1	FX3U-64MS/ES		
Stocked Item	S	S	S	S	S	S	S	S		
Certification	UL • cUL • CE (EN	UL • CUL • CE (EMC)								
Integrated Inputs/Outputs	64	64	64	64	64	64	64	64		
Power Supply	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC	100-240VAC	100-240VAC		
Integrated Inputs	32	32	32	32	32	32	32	32		
Integrated Outputs	32	32	32	32	32	32	32	32		
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Relay	Triac		
Power Consumption (W)	40	45	40	40	45	45	45	45		
Weight (kg)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		
Dimensions (W x H x D) mm	220 x 90 x 86	220 x 90 x 86	220 x 90 x 86	220 x 90 x 86	220 x 90 x 86	220 x 90 x 86	285 x 90 x 86	220 x 90 x 86		

FX3U Main Units with 80 I/O

Model Number	FX3U-80MR/DS	FX3U-80MR/ES	FX3U-80MT/DSS	FX3U-80MT/DS	FX3U-80MT/ESS	FX3U-80MT/ES			
Stocked Item	-	S	-	S	S	S			
Certification	UL • cUL • CE (EMC)	UL • CUL • CE (EMC)							
Integrated Inputs/Outputs	80	80	80	80	80	80			
Power Supply	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC			
Integrated Inputs	40	40	40	40	40	40			
Integrated Outputs	40	40	40	40	40	40			
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)			
Power Consumption (W)	45	50	45	45	50	50			
Weight (kg)	1.2	1.2	1.2	1.2	1.2	1.2			
Dimensions (W x H x D) mm	285 x 90 x 86	285 x 90 x 86	285 x 90 x 86	285 x 90 x 86	285 x 90 x 86	285 x 90 x 86			

FX3U Main Units with 128 I/O

Model Number	FX3U-128MR/ES	FX3U-128MT/ESS	FX3U-128MT/ES
Stocked Item	S	-	-
Certification	UL • cUL • CE (EMC)		
Integrated Inputs/Outputs	128	128	128
Power Supply	100-240VAC	100-240VAC	100-240VAC
Integrated Inputs	64	64	64
Integrated Outputs	64	64	64
Output Type	Relay	Transistor (Source)	Transistor (Sink)
Power Consumption (W)	65	65	65
Weight (kg)	1.8	1.8	1.8
Dimensions (W x H x D) mm	350 x 90 x 86	350 x 90 x 86	350 x 90 x 86

FX3UC

FX3UC Main Units with 16 - 96 I/O

Model Number	FX3UC- 16MT/D	FX3UC-16MT/ DSS	FX3UC-16MR/ DS-T	FX3UC- 32MT/D	FX3UC-32MT/ DSS	FX3UC- 64MT/D	FX3UC-64MT/ DSS	FX3UC- 96MT/D	FX3UC-96MT/ DSS
Stocked Item	-	S	S	-	S	S	-	-	S
Certification	UL • cUL • CE (UL • cUL • CE (EMC)							
Integrated Inputs/Outputs	16	16	16	32	32	64	64	96	96
Integrated Inputs	8	8	8	16	16	32	32	48	48
Input Type	Sink	Sink / Source	Sink / Source	Sink	Sink / Source	Sink	Sink / Source	Sink	Sink / Source
Integrated Outputs	8	8	8	16	16	32	32	48	48
Output Type	Transistor (Sink)	Transistor (Source)	Relay	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)
Power Consumption (W)	6	6	6	8	8	11	11	14	14
Weight (kg)	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.35	0.35
Dimensions (W x H x D) mm	34 x 90 x 74	34 x 90 x 74	34 x 90 x 74	34 x 90 x 74	34 x 90 x 74	59.7 x 90 x 74	59.7 x 90 x 74	85.4 x 90 x 74	85.4 x 90 x 74