

MELSEC-F Series FX3S Main Units and Configuration

FX3S - Keeping it Simple

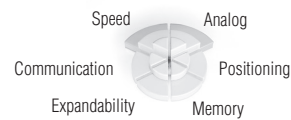
Controllable I/O: 10 - 30 points

Main Unit I/O: 10/14/20/30 points

- Integrated power supply (AC powered)
- Maintenance-free EEPROM memory, batteryless
- Built-in USB port for the programming communication function to enable high-speed communication at 12Mbps
- Built-in positioning control
- Integrated real-time clock
- Up to 30 IO

Product Details

All-in-one CPU, power supply and I/O. Expansion options includes adapter and expansion boards for communication, analog control, or temperature input.



Fast Instruction Times

Basic Instructions: 0.21 μ s / instruction (Contact Instruction)

Applied Instructions: 0.5 μ s / instruction (MOV Instruction)

Large Memory

4,000 steps of built-in program memory. No battery, no maintenance.

Large Device Memory

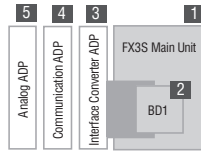
Auxiliary Relays: 1,536 points

Timers: 138 points

Counters: 88 points

Data Registers: 3,000 points

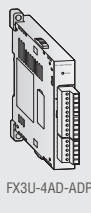
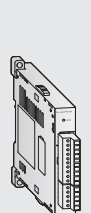


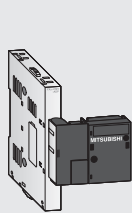
FX3S



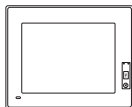
Expansion Boards

 FX3G-232-BD	Communication FX3G-232-BD FX3G-422-BD FX3G-485-BD FX3G-485-BD-RJ	Analog FX3G-2AD-BD FX3G-1DA-BD	Analog Setpoint FX3G-8AV-BD	Digital I/O FX3G-4EX-BD FX3G-2EYT-BD	2
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Special Adapters

 FX3U-4AD-ADP	 FX3U-4AD-PNK-ADP	 FX3U-232ADP-MB	 FX3U-485ADP-MB	 FX3S-CNV-ADP
Analog FX3U-4AD-ADP FX3U-4DA-ADP FX3U-3A-ADP	Temperature FX3U-4AD-PT-ADP FX3U-4AD-TC-ADP FX3U-4AD-PTW-ADP FX3U-4AD-PNK-ADP	Communication FX3U-232ADP-MB FX3U-485ADP-MB FX3U-ENET-ADP		Interface Converter FX3S-CNV-ADP


Optional Equipment and Software


 GOT1000 (GT10/GT11/GT12/GT14/GT16)

Interface Converter
FX-232AWC-H

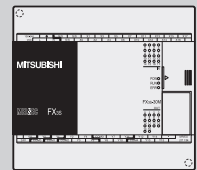
Software
GX Developer
GX Works2
GX Works2 FX

Accessories

Memory Cassette
 FX3G-EEPROM-32L

Display Module
 FX3S-5DM

FX3s Main Units



FX3s Main Units 10-30 I/O

FX3S-10MR/ES	AC D R	FX3S-20MR/ES	AC D R
FX3S-10MR/ES	AC D T1	FX3S-20MT/ES	AC D T1
FX3S-10MT/ESS	AC D T2	FX3S-20MT/ES	AC D T2
FXS-10MR/DS3	DC D R	FX3S-20MR/DS	DC D R
FXS3-10MT/DS	DC D T1	FX3S-20MT/DS	DC D T1
FX3S-10MT/DSS3	DC D T2	FX3S-20MT/DSS	DC D T2
FX3S-14MR/ES	AC D R	FX3S-30MR/ES	AC D R
FX3S-14MT/ES	AC D T1	FX3S-30MT/ES	AC D T1
FX3S-14MT/ES	AC D T1	FX3S-30MT/ES	AC D T1
FX3S-14MR/DS	DC D R	FX3S-30MR/DSX	DC D R
FX3S-14MT/DS	DC D T1	FX3S-30MT/DS	DC D T1
FX3S-14MT/DSS	DC D T2	FX3S-30MT/DSS	DC D T2
		FX3S-30MR/ES-2AD	AC D R
		FX3S-30MT/ES-2AD	AC D T1
		FX3S-30MT/ESS-2AD	AC D T2

AC AC Power Supply R Relay Output
DC DC Power Supply T1 Transistor (sink)
D DC Input (sink/source) T2 Transistor (source)

FX3S

FX3S Main Units with 10 - 14 I/O

Model Number	FX3S-10MR/DS	FX3S-10MR/ES	FX3S-10MT/DS	FX3S-10MT/DSS	FX3S-10MT/ES	FX3S-10MT/ESS
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE (EMC)					
Integrated Inputs/Outputs	10	10	10	10	10	10
Power Supply (V)	24VDC	100 - 240VAC	24VDC	24VDC	100 - 240VAC	100 - 240VAC
Integrated Inputs	6	6	6	6	6	6
Integrated Outputs	4	4	4	4	4	4
Output Type	Relay	Relay	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)
Power Consumption (W)	6	19	6	6	19	19
Weight (kg)	0.22	0.3	0.22	0.22	0.3	0.3
Dimensions (W x H x D) mm	60 x 90 x 75	60 x 90 x 75	60 x 90 x 49	60 x 90 x 49	60 x 90 x 75	60 x 90 x 75

FX3S Main Units with 10 - 14 I/O

Model Number	FX3S-14MR/DS	FX3S-14MR/ES	FX3S-14MT/DS	FX3S-30MT/DSS	FX3S-14MT/ES	FX3S-14MT/ESS
Stocked Item	S	S	-	S	S	S
Certification	UL • cUL • CE (EMC)					
Integrated Inputs/Outputs	10	14	14	14	14	14
Power Supply (V)	24VDC	100 - 240VAC	24VDC	24VDC	100 - 240VAC	100 - 240VAC
Integrated Inputs	8	8	8	8	8	8
Integrated Outputs	6	6	6	6	6	6
Output Type	Relay	Relay	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)
Power Consumption (W)	6.5	19	6.5	6.5	19	19
Weight (kg)	0.22	0.3	0.22	0.22	0.3	0.3
Dimensions (W x H x D) mm	60 x 90 x 49	60 x 90 x 75	60 x 90 x 49	60 x 90 x 49	60 x 90 x 75	60 x 90 x 75

FX3S Main Units with 20 - 30 I/O

Model Number	FX3S-20MR/DS	FX3S-20MR/ES	FX3S-20MT/DS	FX3S-20MT/DSS	FX3S-20MT/ES	FX3S-20MT/ESS
Stocked Item	S	S	-	S	S	S
Certification	UL • cUL • CE (EMC)					
Integrated Inputs/Outputs	20	20	20	20	20	20
Power Supply (V)	24VDC	100 - 240VAC	24VDC	24VDC	100 - 240VAC	100 - 240VAC
Integrated Inputs	12	12	12	12	12	12
Integrated Outputs	8	8	8	8	8	8
Output Type	Relay	Relay	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)
Power Consumption (W)	7	20	7	7	20	20
Weight (kg)	0.3	0.4	0.3	0.3	0.4	0.4
Dimensions (W x H x D) mm	75 x 90 x 49	75 x 90 x 75	75 x 90 x 49	75 x 90 x 49	75 x 90 x 75	75 x 90 x 75

FX3S Main Units with 20 - 30 I/O

Model Number	FX3S-30MR/DS	FX3S-30MR/ES	FX3S-30MT/DS	FX3S-30MT/DSS	FX3S-30MT/ES	FX3S-30MT/ESS
Stocked Item	S	S	-	S	S	S
Certification	UL • cUL • CE (EMC)					
Integrated Inputs/Outputs	30	30	30	30	30	30
Power Supply (V)	24VDC	100 - 240VAC	24VDC	24VDC	100 - 240VAC	100 - 240VAC
Integrated Inputs	16	16	16	16	16	16
Integrated Outputs	14	14	14	14	14	14
Output Type	Relay	Relay	Transistor (Sink)	Transistor (Source)	Transistor (Sink)	Transistor (Source)
Power Consumption (W)	8.5	21	8.5	8.5	21	21
Weight (kg)	0.35	0.45	0.35	0.35	0.45	0.45
Dimensions (W x H x D) mm	100 x 90 x 49	100 x 90 x 75	100 x 90 x 49	100 x 90 x 49	100 x 90 x 75	100 x 90 x 75

FX3S Main Units with 30 I/O and Analog Inputs

Model Number	FX3S-30MR/ES-2AD	FX3S-30MT/ES-2AD	FX3S-30MT/ESS-2AD
Stocked Item	S	S	S
Certification	UL • cUL • CE (EMC)		
Integrated Inputs/Outputs	30	30	30
Power Supply (V)	100 - 240VAC	100 - 240VAC	100 - 240VAC
Integrated Digital Inputs	16	16	16
Integrated Analog Inputs	2 (10 bit, 0-10VDC)	2 (10 bit, 0-0VDC)	2 (10 bit, 0-10VDC)
Integrated Outputs	14	14	14
Output Type	Relay	Transistor (Source)	Transistor (Sink)
Power Consumption (W)	21	21	21
Weight (kg)	0.45	0.45	0.45
Dimensions (W x H x D) mm	100 x 90 x 49	100 x 90 x 75	100 x 90 x 75