

PRODUCT DATASHEET

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Industrial control products

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MELSEC-F Series FX3G/FX3GE Main Units and Configuration

FX3G - Customized Control

Controllable I/O: 14 - 256 points (with CC-Link remote I/O)

Main Unit I/O: 12/24/40/60 points

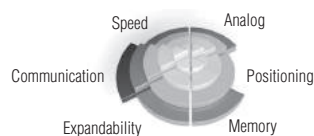
- Integrated real-time clock
- Built-in USB port for the programming communication function to enable high-speed communication at 12Mbps
- Two built-in variable analog potentiometers available for adjusting the timer set time

Product Details

All in one CPU uses the FX3 Series ADP bus system and new expansion boards (BD).

Instruction Times

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



Large Memory

32,000 steps of built-in program memory. EEPROM memory cassette with loader function is available.

Large Device Memory

Auxiliary Relays:	7,680 points
Timers:	320 points
Counters:	235 points
Data Registers:	8,000 points
Extension Registers:	24,000 points
Extension File Registers:	24,000 points

FX3GE - All-In-One Control

Controllable I/O: 24 - 256 points (with CC-Link remote I/O)

Main Unit I/O: 24/40 points

- Embedded Ethernet communications port
- Embedded analog I/O (2 inputs, 1 output)
- Integrated real-time clock
- Built-in USB port for the programming communication function to enable high-speed communication at 12Mbps.
- Two built-in variable analog potentiometers available for adjusting the timer set time.

Product Details

All in one CPU, power supply and I/O. Can use all the same expansion options as FX3G.



Fast Instruction Times

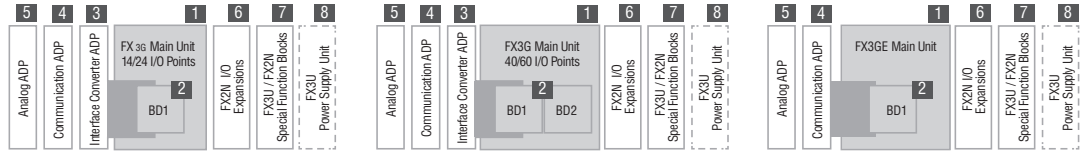
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Extension Registers:	24,000 points
Extension File Registers:	24,000 points



Expansion Boards

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

Special Adapters

Analog	Temperature	Communication	Interface Converter
FX3U-4AD-ADP FX3U-4DA-ADP FX3U-3A-ADP	FX3U-4AD-PT-ADP FX3U-4AD-TC-ADP FX3U-4AD-PTW-ADP FX3U-4AD-PNK-ADP	FX3U-232ADP-MB FX3U-485ADP-MB FX3U-ENET-ADP* * Not available for FX3GE main units	FX3G-CNV-ADP

FX3G Main Units

FX3G Main Units 14-60 I/O
FX3G-24MT/ES FX3G-40MT/ES FX3G-14MR/ES FX3G-14MT/ES FX3G-14MT/ESS FX3G-14MR/DS FX3G-14MT/DS FX3G-14MT/DSS FX3G-24MR/ES FX3G-24MT/ES FX3G-24MT/ESS FX3G-24MR/DS FX3G-24MT/DS FX3G-24MT/DSS FX3GE-24MR/ES FX3GE-24MT/ES FX3GE-24MT/ESS FX3GE-24MR/DS FX3GE-24MT/DS FX3GE-24MT/DSS

AC AC Power supply R Relay output
 DC DC Power supply T1 Transistor(sink)
 D DC Input(sink/source) T2 Transistor(source)

Special Function Modules

I/O Extension Blocks	Powered Extension Units	Unpowered Extension Blocks
FX2N-48ER	Input/Output Extension Units FX2N-32ER-ES/UL FX2N-32ET-ESS/UL FX2N-48ER-DS FX2N-48ER-ES/UL FX2N-48ER-UA1/UL FX2N-48ET-DSS FX2N-48ET-ESS/UL	Input Extension Blocks FX2N-8EX-ES/UL FX2N-8EX-UA1/UL FX2N-16EX-ES/UL Output Extension Blocks FX2N-8EYR-ES/UL FX2N-8EYT-ESS/UL FX2N-8EYR-S-ES/UL FX2N-16EYR-ES/UL FX2N-16EYT-ESS/UL FX2N-16EYS Input/Output Extension Blocks FX2N-8ER-ES/UL
Special Function Blocks FX3U-4DA	Analog FX2N-2AD FX3U-4AD FX2N-2DA FX3U-4DA FX2N-5A FX2N-8AD Temperature FX2N-2LC FX2N-4AD-TC FX2N-4AD-PT FX3U-4LC Network FX3U-16CCL-M FX2N-32CCL FX3U-64CCL FX3U-ENET FX3U-32DP	Power Supply Unit FX3U-1PSU-5V

Optional Equipment and Software

GT14	GOT GOT1000 (GT10/GT11/GT12/GT14/GT16) Interface Converter FX-232AWC-H Software GX Developer GX Works2 GX Works2 FX
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Accessories

Memory Cassette FX3G-EEPROM-32L	Display Module FX3G-5DM	Extension Cables FXON-30EC (30cm) FXON-65EC (65cm) PLC Bus Connector FX2N-CNV-8C	Battery FX3U-32BL
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FX3G

FX3G Main Units with 14 I/O

Model Number	FX3G-14MR/DS	FX3G-14MR/ES	FX3G-14MT/DSS	FX3G-14MT/DS	FX3G-14MT/ESS	FX3G-14MT/ES
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE (EMC)					
Integrated Inputs/Outputs	14	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 (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption (W)	19	31	19	19	31	31
Weight (kg)	0.5	0.5	0.5	0.5	0.5	0.5
Dimensions (W x H x D) mm	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86

FX3G Main Units with 24 I/O

Model Number	FX3G-24MR/DS	FX3G-24MR/ES	FX3G-24MT/DSS	FX3G-24MT/DS	FX3G-24MT/ESS	FX3G-24MT/ES
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE (EMC)					
Integrated Inputs/Outputs	24	24	24	24	24	24
Power Supply (V)	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC
Integrated Inputs	14	14	14	14	14	14
Integrated Outputs	10	10	10	10	10	10
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption (W)	21	32	21	21	32	32
Weight (kg)	0.55	0.55	0.55	0.55	0.55	0.55
Dimensions (W x H x D) mm	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86	90 x 90 x 86

FX3G Main Units with 40 I/O

Model Number	FX3G-40MR/DS	FX3G-40MR/ES	FX3G-40MT/DSS	FX3G-40MT/DS	FX3G-40MT/ESS	FX3G-40MT/ES
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE (EMC)					
Integrated Inputs/Outputs	40	40	40	40	40	40
Power Supply (V)	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC
Integrated Inputs	24	24	24	24	24	24
Integrated Outputs	16	16	16	16	16	16
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption (W)	25	37	25	25	37	37
Weight (kg)	0.7	0.7	0.7	0.7	0.7	0.7
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

FX3G Main Units with 60 I/O

Model Number	FX3G-60MR/DS	FX3G-60MR/ES	FX3G-60MT/DSS	FX3G-60MT/DS	FX3G-60MT/ESS	FX3G-60MT/ES
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE (EMC)					
Integrated Inputs/Outputs	60	60	60	60	60	60
Power Supply (V)	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC
Integrated Inputs	36	36	36	36	36	36
Integrated Outputs	24	24	24	24	24	24
Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption (W)	29	40	29	29	40	40
Weight (kg)	0.85	0.85	0.85	0.85	0.85	0.85
Dimensions (W x H x D) mm	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86

FX3GE

FX3GE Main Units with 24 I/O

Model Number	FX3GE-24MR/DS	FX3GE-24MR/ES	FX3GE-24MT/DSS	FX3GE-24MT/DS	FX3GE-24MT/ESS	FX3GE-24MT/ES
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)
Integrated Inputs/Outputs	24	24	24	24	24	24
Power Supply (V)	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC
Integrated Digital Inputs	14	14	14	14	14	14
Integrated Analog Inputs	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)
Integrated Digital Outputs	10	10	10	10	10	10
Integrated Analog Outputs	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)
Digital Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption (W)	32	32	32	32	32	32
Weight (kg)	0.6	0.6	0.6	0.6	0.6	0.6
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

FX3GE Main Units with 40 I/O

Model Number	FX3GE-40MR/DS	FX3GE-40MR/ES	FX3GE-40MT/DSS	FX3GE-40MT/DS	FX3GE-40MT/ESS	FX3GE-40MT/ES
Stocked Item	S	S	S	S	S	S
Certification	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)	UL • cUL • CE (EMC)
Integrated Inputs/Outputs	40	40	40	40	40	40
Power Supply (V)	24VDC	100-240VAC	24VDC	24VDC	100-240VAC	100-240VAC
Integrated Digital Inputs	24	24	24	24	24	24
Integrated Analog Inputs	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)	2 (12 bit, 0-10V or 4-20mA DC)
Integrated Digital Outputs	16	16	16	16	16	16
Integrated Analog Outputs	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)	1 (12 bit, 0-10V or 4-20mA DC)
Digital Output Type	Relay	Relay	Transistor (Source)	Transistor (Sink)	Transistor (Source)	Transistor (Sink)
Power Consumption (W)	37	37	37	37	37	37
Weight (kg)	0.8	0.8	0.8	0.8	0.8	0.8
Dimensions (W x H x D) mm	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86	175 x 90 x 86



2025 KWOCO CONTACT

WHY CHOOSE KWOCO

- Extensive inventory
- Brand new, Original products

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