

# FX Main Units Lineup

FX Main Units Lineup

FX Control Solutions

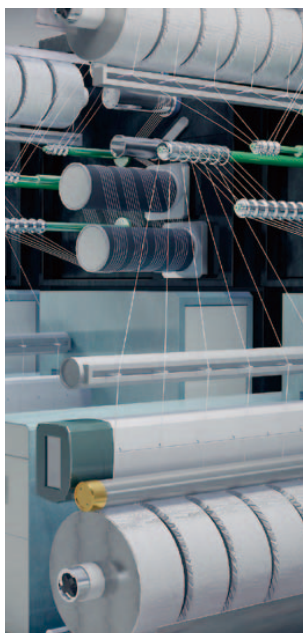
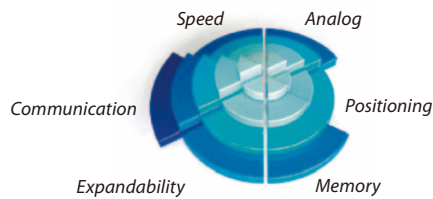
Visualization

Software



## FX3G

Controllable I/O: 14 - 128 points  
 Max. 256 with CC-Link remote I/O  
 (Main Unit I/O: 14/24/40/60 points)



### Customized Control

The FX3G is an introductory compact PLC and is the newest addition to the FX3 series, designed for simple yet performance-critical applications. Incorporating innovative FX3 series technology the customer is presented with a suite of benefits.

- 3rd generation compact PLC
- Highly flexible
- Dual system-bus architecture
- Control of up to 128 directly connected I/O, or up to 256 I/O with CC-Link remote I/O.

### Product Details

All in one CPU, power supply and I/O. Includes many upgraded features from the FX1N. Especially usage of the FX3 series ADP bus system and expansion boards (BD).

### Instruction Times

Basic Instructions: 0.21  $\mu$ s / instruction (Contact Instruction)  
 Applied Instructions: 0.42  $\mu$ s / instruction (MOV Instruction)

### Large Memory

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

### Applicable Standards

All products support EN and UL/cUL standards.  
 Various shipping approvals are supported as well.

### 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

# FX SERIES SELECTION GUIDE



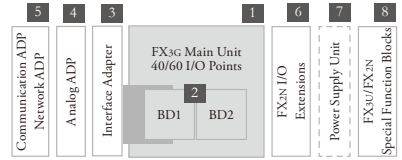
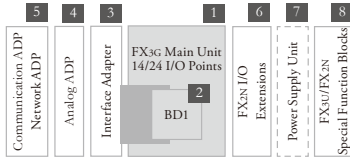
	System Item	Item Specification *	Terminal-type I/O					Connector-type I/O	
			Non-Extendable *		Extendable			Extendable	
			<i>FX1S</i>	<i>FX3S</i>	<i>FX3G</i>	<i>FX3GE</i>	<i>FX3U</i>	<i>FX3GC</i>	<i>FX3UC</i>
Hardware	I/O points	Up to 30 local I/O's	✓	✓	★	★	★	★	★
		Up to 128 local I/O's			✓	✓	★	✓	★
		Up to 256 local I/O's					✓		✓
		Up to 256 local and network I/O's			✓	✓	★	✓	★
		Up to 384 local and network I/O's					✓		✓
	Power Supply	AC Power	✓	✓	✓	✓	✓		
		DC Power	✓		✓		✓	✓	✓
	Input type	100 V AC					✓		
		24 V DC	✓	✓	✓	✓	✓	✓	✓
	Output type	Relay	✓	✓	✓	✓	✓		✓
		Transistor	✓	✓	✓	✓	✓	✓	✓
		Triac					✓		
	CPU Speed	Standard	✓	✓	✓	✓	★	✓	★
		Advanced					✓		✓
Communication ports	USB		✓	✓	✓		✓		
	RS-422	✓	✓	✓	✓	✓	✓	✓	
	Ethernet				✓				
Analog I/O	Input : 2 Output : 1				✓				
Options	Analog I/O (Current / Voltage)	Up to 4 ADP channels		✓	✓	✓	✓	✓	✓
		Up to 8 ADP channels			✓*1		★	✓	★
		Up to 16 ADP channels					✓		✓
		Up to 64 special function block channels			✓	✓	✓	✓	✓
	Temperature Sensor Input	Up to 4 ADP input channels		✓	✓	✓	✓	✓	✓
		Up to 8 ADP input channels			✓*1		★	✓	★
		Up to 16 ADP input channels					✓		✓
		Up to 64 special function block input channels			✓	✓	✓	✓	✓
	Network	Temperature control			✓	✓	✓	✓	✓
		CC-Link (Master/Slave)			✓	✓	✓	✓	✓
		CANopen®			✓	✓	✓	✓	✓
		J1939			✓	✓	✓	✓	✓
		Ethernet	✓	✓	✓	✓	✓	✓	✓
		PROFIBUS-DP	Master				✓		✓
Communication	N : N Network/Parallel Link	Computer Link (RS-232C/RS-485)	✓	✓	✓	✓	✓	✓	
		Non-Protocol Communication	1 Channel (RS-232C/RS-485)	✓	✓	★	✓	★	
	Add-on Communication Ports	Multi-Channel (RS-232C)			✓		✓	✓	
		Multi-Channel (RS-485)			✓		✓	✓	
		RS-485	✓	✓	✓	✓	✓	✓	
	Inverter control	RS-232C	✓	✓	✓	✓	✓	✓	
		USB					✓		
		Embedded USB		✓	✓	✓		✓	
Modbus®			✓	✓	✓	✓	✓		
Positioning	Analog	✓	✓	✓	✓	✓	✓		
	Pulse width modulation	✓	✓	✓	✓	✓	✓		
	RS-485 Communication		✓	✓	✓	✓	✓		
	1 - 2 100 kHz Axis Built-in Positioning	✓	✓	✓	✓	★	✓		
	Up to 3 x 100 kHz Axis Built-in Positioning			✓*2	✓*2	✓			
	Up to 4 x 200 kHz Axis with High-Speed Output Adapters					✓			
High-Speed Counters	Up to 8 x 1 MHz Axis with Special Function Blocks					✓			
	Up to 16 SSCNET III Axis with Special Function Blocks					✓			
Storage	Cam switching					✓			
	Up to 6 high speed counters, Max. 60 kHz	✓	✓	✓	✓	★	✓		
	Up to 8 high speed counters, Max. 100 kHz					✓			
Data Logging	Up to 8 high speed counters with 200 kHz Adapter					✓			
	Additional Extension using High-Speed Counter Block					✓			
	Source data storage					✓	✓		
	CF card Adapter					✓	✓		

\* : Some items require additional extension modules in order to function where other connection rules and requirements may apply. For more details, refer to the respective product manuals.

✓ : Contains required functionality  
 ★ : Higher functionality or more expandability  
 \* 1 : 14 and 24 I/O points main units : Max. 4 channels  
 \* 2 : 14 and 24 I/O points main units : Max. 2 axes

# FX SERIES CONFIGURATION

# FX3G



## Special Adapters

5

**Communication**

FX3u-232ADP-MB  
FX3u-485ADP-MB

**Network**

FX3u-ENET-ADP\*

4

**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

3

**Interface Adapter**

FX3G-CNV-ADP

\*: Firmware version 2.00 or later.

## Optional Equipment and Software

GT14

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

## Expansion Boards

FX3G-232-BD

<b>Communication</b>	<b>Analog</b>
FX3G-232-BD FX3G-422-BD FX3G-485-BD	FX3G-2AD-BD FX3G-1DA-BD
<b>Analog Setpoint</b>	
FX3G-8AV-BD	

## FX3G Main Units

1

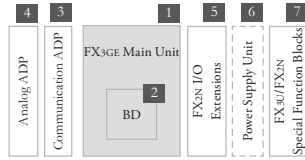
FX3G-24M      FX3G-40M

**FX3G Main Units 14-60 I/O**

FX3G-14MR/ES	AC D R	FX3G-40MR/ES	AC D R
FX3G-14MT/ES	AC D T1	FX3G-40MT/ES	AC D T1
FX3G-14MT/ESS	AC D T2	FX3G-40MT/ESS	AC D T2
FX3G-14MR/DS	DC D R	FX3G-40MR/DS	DC D R
FX3G-14MT/DS	DC D T1	FX3G-40MT/DS	DC D T1
FX3G-14MT/DSS	DC D T2	FX3G-40MT/DSS	DC D T2
FX3G-24MR/ES	AC D R	FX3G-60MR/ES	AC D R
FX3G-24MT/ES	AC D T1	FX3G-60MT/ES	AC D T1
FX3G-24MT/ESS	AC D T2	FX3G-60MT/ESS	AC D T2
FX3G-24MR/DS	DC D R	FX3G-60MR/DS	DC D R
FX3G-24MT/DS	DC D T1	FX3G-60MT/DS	DC D T1
FX3G-24MT/DSS	DC D T2	FX3G-60MT/DSS	DC D T2

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

# FX3GE



## Special Adapters

4

**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

3

**Communication**

FX3u-232ADP-MB  
FX3u-485ADP-MB

## Optional Equipment and Software

GT14

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

## Expansion Boards

FX3G-232-BD

<b>Communication</b>	<b>Analog</b>
FX3G-232-BD FX3G-422-BD FX3G-485-BD	FX3G-2AD-BD FX3G-1DA-BD
<b>Analog Setpoint</b>	
FX3G-8AV-BD	

## FX3GE Main Units

1

FX3GE-24M

**FX3GE Main Units 24-40 I/O**

FX3GE-24MR/ES	AC D R	FX3GE-40MR/ES	AC D R
FX3GE-24MT/ES	AC D T1	FX3GE-40MT/ES	AC D T1
FX3GE-24MT/ESS	AC D T2	FX3GE-40MT/ESS	AC D T2

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

## Programming Specifications

Programming				
System specifications	FX1s	FX3s	FX3G/FX3GC/FX3GE	FX3U/FX3UC
I/O points	30(+4 optional)	30 total	256 total (combined local and CC-Link remote I/O)	384 total (combined local and CC-Link remote I/O)
Address range	Max. 30 direct addressing	Max. 30 direct addressing	Max. 128 direct addressing and Max. 128 remote I/O	Max. 256 direct addressing and Max. 256 remote I/O
Program memory	2,000 steps EEPROM	16,000 steps EEPROM (Program capacity is 4,000 steps.)	32,000 steps EEPROM (internal), exchangeable EEPROM memory cassette**	64,000 steps RAM (internal), exchangeable FLROM memory cassette
Instruction Time	0.7 μs / contact instruction	0.21 μs or 0.5 μs / contact instruction	0.21 μs or 0.42 μs / contact instruction	0.065 μs / contact instruction
Number of instructions	27 sequence instructions, 2 steps ladder instructions, 85 applied instructions	29 sequence instructions, 2 steps ladder instructions, 116 applied instructions	29 sequence instructions, 2 steps ladder instructions, 124 applied instructions	29 sequence instructions, 2 steps ladder instructions, 218 applied instructions
Programming language	Step ladder, instruction list, SFC Step ladder			
Program execution	Cyclical execution, refresh mode processing			
Program protection	8 character keyword with 3 protection levels each*	2 different keywords, Max password length 16 characters		

\* 8-character keyword protection level depends on the keyword registered; 16-character keyword protection level is set within GX-Developer.

\*\* Not for FX3GC

## Devices

System specifications	FX1s	FX3s	FX3G/FX3GC/FX3GE	FX3U/FX3UC
Auxiliary relays	512 total, with 384 general (M0 - M383) and 128 latched (M384 - M511)	1,536 total, with 1,408 general (M0 - M383 and M512 - M1535) and 128 EEPROM latched (M384 - M511)	7,680 total, with 384 general (M0 - M383), 1,152 EEPROM latched (M384 - M1535), and 6,144 general/optional latched (M1536 - M7679)	7,680 total, with 500 general (M0 - M499), 524 optional latched (M500 - M1023), and 6,656 latched (M1024 - M7679)
Special auxiliary relays	256 (M8000 - M8255)	512 (M8000 - M8511)		
State relays	128 all latched (S0 - S127)	256 total, with 128 EEPROM latched (S0 - S127) and 128 general (S128 - S255)	4,096 total, with 1,000 EEPROM latched (S0 - S999) and 3,096 general/optional latched (S1000 - S4095)	4,096 total, with 1,000 optional latched (S0 - S999) and 3,096 latched (S1000 - S4095)
Timers	64 total, with 31 points partially switchable between 100 ms and 10 ms (T32 - T62)	169 total, with 69 100 ms (T0 - T62 and T132 - T137), 31 100/10 ms (T32 - T62), and 69 1 ms (T63 - T131)	320 total, with 206 100 ms (T0 - T199 and T250 - T255), 46 10 ms (T200 - T245), and 68 1 ms (T246 - T249 and T256 - T319)	512 total, with 206 100 ms (T0 - T191, T192 - T199 and T250 - T255), 46 10 ms (T200 - T245), and 260 1 ms (T246 - T249 and T256 - T511)
External setpoint entry via potentiometer	2*			—
Counters	32 total (16 bit only), with 16 general (C0 - C15) and 16 latched (C16 - C31)	67 total (16 bit and 32 bit), with 51 general (C0 - C15 and C200 - C234) and 16 EEPROM latched (C16 - C31)	235 total (16 bit and 32 bit), with 36 general (C0 - C15 and C200 - C219) and 199 EEPROM latched (C16 - C199 and C220 - C234)	235 total (16 bit and 32 bit), with 120 general (C0 - C99 and C200 - C219) and 115 latched (C100 - C199 and C220 - C234)
High-speed counters	21 total, with 16 1-phase (C235 - C250) and 5 2-phase (C251 - C255)			
High-speed counter speed	1-phase, 6 points max: 60 kHz / 2 points, 10 kHz / 4 points ; 2-phase, 2 points max: 30 kHz / 1 point, 5 kHz / 1 point		1-phase, 6 points max: 60 kHz / 4 points, 10 kHz / 2 points 2-phase, 3 points max: 30 kHz / 2 points, 5 kHz / 1 point	1-phase, 8 points max: 100 kHz / 6 points 10 kHz / 2 points 2-phase, 2 points max: 50 kHz / 2 points
Real-time clock	Year, month, day, hour, minute, second, day of the week			
Data registers	256 total, with 128 general (D0 - D127) and 128 latched (D128 - D255)	3,000 total, with 2,872 general (D0 - D127 and D256 - D2999) and 128 EEPROM latched (D128 - D255)	8,000 total, with 128 general (D0 - D127), 972 EEPROM latched (D128 - D1099), and 6,900 general/optional latched (D1100 - D7999)	8,000 total, with 200 general (D0 - D199), 312 optional latched (D200 - D511), and 7,488 latched (D512 - D7999)
Extension registers	—		24,000 (R0 - R23999)	32,768 (R0 - R32767)
Extension file registers	—		24,000 (ERO - R23999) internal/optional memory	32,768 (ERO - R32767) optional memory
Index registers	16			
Special data registers	256 (D8000 - D8255)	512 (D8000 - D8511)		
Pointers	64	256	2,048	4,096
Nestings	8			
Interrupt inputs	6			
Constants	16 bit: K: -32,768 to +32,767; H: 0 to FFFF; 32 bit: K: -2,147,483,648 to +2,147,483,647; H: 0 to FFFF FFFF			

\* Not for FX3GC

# ENVIRONMENTAL & ELECTRICAL SPECIFICATIONS

## Environmental Specifications

General specifications	FX1s	FX3s	FX3G/FX3GE	FX3GC	FX3U	FX3UC
Ambient temperature	0 – 55 °C (storage temperature: -20 – +70 °C)		0 – 55 °C (storage temperature: -25 – +75 °C)			
Noise durability	1000 Vpp with noise generator; 1 μs at 30 – 100 Hz					
Dielectric withstand voltage	AC PSU : 1500 V AC, 1 min. / DC PSU : 500 V AC, 1 min.			500 V AC, 1 min.	AC PSU : 1500 V AC, 1 min. / DC PSU : 500 V AC, 1 min.	500 V AC, 1 min.
Ambient relative humidity	35 – 85% (non-condensing)		5 – 95% (non-condensing)			
Vibration resistance*			Frequency (Hz)	Acceleration (m/s <sup>2</sup> )	Half amplitude (mm)	Sweep Count for X, Y, Z : 10 times (80 min in each direction)
	When installed on DIN rail		10 to 57	—	0.035	
			57 to 150	4.9	—	
	When installed directly		10 to 57	—	0.075	
			57 to 150	9.8	—	
Shock resistance*	147 m/s <sup>2</sup> Acceleration, Action time: 11ms, 3 times by half-sine pulse in each direction X, Y, and Z					
Insulation resistance	500 V DC, 5 MΩ					
Ground	Class D: Grounding resistance 100 Ω or less					
Fuse	AC models: 250 V 1.0 A; DC models: 250 V 0.8 A	250 V 1.0 A	AC models : 250 V 1 A(FX3G-14/24M) (FX3GE-24M) 250 V 3.15 A(FX3G-40/60M) (FX3GE-40M) DC models : 125 V 2.5 A(FX3G-14/24M) 125 V 3.15 A(FX3G-40/60M)	125 V 3.15 A	From FX3U-16M[] to FX3U-32M[]: 250 V 3.15 A; From FX3U-48M[] to FX3U-128M[] and FX3U-32MR/UA1 : 250 V 5 A	125 V 3.15 A
Environment	Avoid environments containing corrosive gases, install in a dust-free location.					
Certifications	Please refer to the Certifications page in this catalog.					

\* The criterion is shown IEC 61131-2.

## Electrical Specifications

Power Supply Specifications	FX1s	FX3s	FX3G/FX3GE	FX3GC	FX3UC
	AC Powered Models (FX1s-[]M[]-ES(S)/UL)	DC Powered Models (FX1s-[]M[]-DS/-DSS)	AC Powered Models (FX3s-[]M[]/ES/ESS)	AC Powered Models (FX3G(E)-[]M[]/ES/ESS)	DC Powered Models (FX3G-[]M[]/DS/DSS)
Power supply	100–240 V AC (+10 % / -15 %), 50/60 Hz (±10 %)	24 V DC (+10 % / -15 %)	100–240 V AC (+10 % / -15 %), 50/60 Hz (±10 %)	100–240 V AC (+10 % / -15 %), 50/60 Hz	24 V DC (+20% / -15 %)
Inrush current at ON	15 A / 5 ms (at 100 V AC); 25 A / 5 ms (at 200 V AC)	10 A / 0.1 ms (at 24 V DC)	15 A / 5 ms (at 100 V AC); 28 A / 5 ms (at 200 V AC)	30 A / <5 ms (at 100 V AC); 50 A / <5 ms (at 200 V AC)	30 A / <1 ms (at 24 V DC)
Allowable momentary power failure time	10 ms	5 ms	10 ms	10 ms	5 ms
24 V DC service power supply	400 mA	—	400 mA	400 mA	—

Power Supply Specifications	FX3GC	FX3U	FX3UC
	DC Powered Models (FX3GC-[]M[]/D/DSS)	AC Powered Models (FX3U-[]M[]/ES/ESS)	DC Powered Models (FX3UC-[]M[]/D/DSS)
Power supply	24 V DC (+20% / -15 %)	100–240 V AC (+10% / -15%), 50/60 Hz	24 V DC (+20% / -30%) Ripple Voltage (p-p)5% or less
Inrush current at ON	30 A / <0.5 ms (at 24 V DC)	30 A / <5 ms (at 100 V AC); 65 A / <5 ms (at 200 V AC)	35 A / <0.5 ms (at 24 V DC)
Allowable momentary power failure time	5 ms	10 ms	5 ms
24 V DC service power supply	—	FX3U-16/32MR/ES: 400 mA / FX3U-48/64/80/128MR/ES: 600 mA	—

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FX MAIN UNITS

## ENVIRONMENTAL & ELECTRICAL SPECIFICATIONS

1

FX MAIN UNITS

Output Specifications	FX1s		FX3s		FX3G/FX3GE		FX3GC	
	Relay Models	Transistor Models	Relay Models	Transistor Models	Relay Models	Transistor Models	Transistor Models	
Switching voltage (Max.)	V	<250 V AC, <30 V DC	5–30 V DC	<240 V AC, <30 V DC	5–30 V DC	<240 V AC, <30 V DC	5–30 V DC	5–30 V DC
Max. output current	- per output	A 2	0.5	2	0.5	2	0.5	0.3 A (Y0–Y1), and 0.1 A (Y2 or higher)
	- per group*	A 8	0.8	8	0.8	8	0.8	0.8
Max. switching current	- inductive load	80 VA	12 W	80 VA	12 W	80 VA	12 W	38.4 W (7.2 W per point for Y0–Y1 and 2.4 W per point for Y2 or higher)
Response time	ms	10	0.2	10	< 0.2 ( < 5 μs for Y0,Y1 )	10	< 0.2 ( < 5 μs for Y0,Y1 )****	< 0.2 ( < 5 μs for Y0–Y1)
Life of contacts (switching times)		3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA	—	3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA**	—	3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA**	—	—***

Output Specifications	FX3U			FX3UC		
	Relay Models	Transistor Models	Triac Modules	Relay Models	Transistor Models	
Switching voltage (Max.)	V	<240 V AC, <30 V DC	5–30 V DC	85–242 V AC	<240 V AC, <30 V DC	5–30 V DC
Max. output current	- per output	A 2	0.5	0.3	2	0.3 A (Y0–Y3), and 0.1 A (Y4 or higher)
	- per group*	A 8	0.8	0.8	8	0.8
Max. switching current	- inductive load	80 VA	12 W	15 VA/100 VAC 30 VA/200 VAC	80 VA	38.4 W (7.2 W per point for Y0–Y3 and 2.4 W per point for Y4 or higher)
Response time	ms	10	< 0.2 ( < 5 μs for Y0–Y2 )	< 10	10	< 0.2 ( < 5 μs for Y0–Y2)
Life of contacts (switching times)		3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA**	—	—	3,000,000 at 20 VA; 1,000,000 at 35 VA; 200,000 at 80 VA**	—***

\* This limitation applies to the maximum output current for each reference terminal (Common), each serving 1 to 4 relay or transistor outputs. Please observe the reference terminal assignments for group identification.

\*\* Not guaranteed by Mitsubishi Electric.

\*\*\* Refer to the specifications of the Terminal Block being used.

\*\*\*\* The 40 and 60 I/O point main units supports 5 μs for Y2.

## FX3G

### Main Units with 14 I/O

Specifications	FX3G-14MR/DS	FX3G-14MR/ES	FX3G-14MT/DSS	FX3G-14MT/DS	FX3G-14MT/ESS	FX3G-14MT/ES
Integrated inputs/outputs	14	14	14	14	14	14
Power supply	24 V DC	100–240 V AC	24 V DC	24 V DC	100–240 V AC	100–240 V AC
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

### Main Units with 24 I/O

Specifications	FX3G-24MR/DS	FX3G-24MR/ES	FX3G-24MT/DSS	FX3G-24MT/DS	FX3G-24MT/ESS	FX3G-24MT/ES
Integrated inputs/outputs	24	24	24	24	24	24
Power supply	24 V DC	100–240 V AC	24 V DC	24 V DC	100–240 V AC	100–240 V AC
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

### Main Units with 40 I/O

Specifications	FX3G-40MR/DS	FX3G-40MR/ES	FX3G-40MT/DSS	FX3G-40MT/DS	FX3G-40MT/ESS	FX3G-40MT/ES
Integrated inputs/outputs	40	40	40	40	40	40
Power supply	24 V DC	100–240 V AC	24 V DC	24 V DC	100–240 V AC	100–240 V AC
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

### Main Units with 60 I/O

Specifications	FX3G-60MR/DS	FX3G-60MR/ES	FX3G-60MT/DSS	FX3G-60MT/DS	FX3G-60MT/ESS	FX3G-60MT/ES
Integrated inputs/outputs	60	60	60	60	60	60
Power supply	24 V DC	100–240 V AC	24 V DC	24 V DC	100–240 V AC	100–240 V AC
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

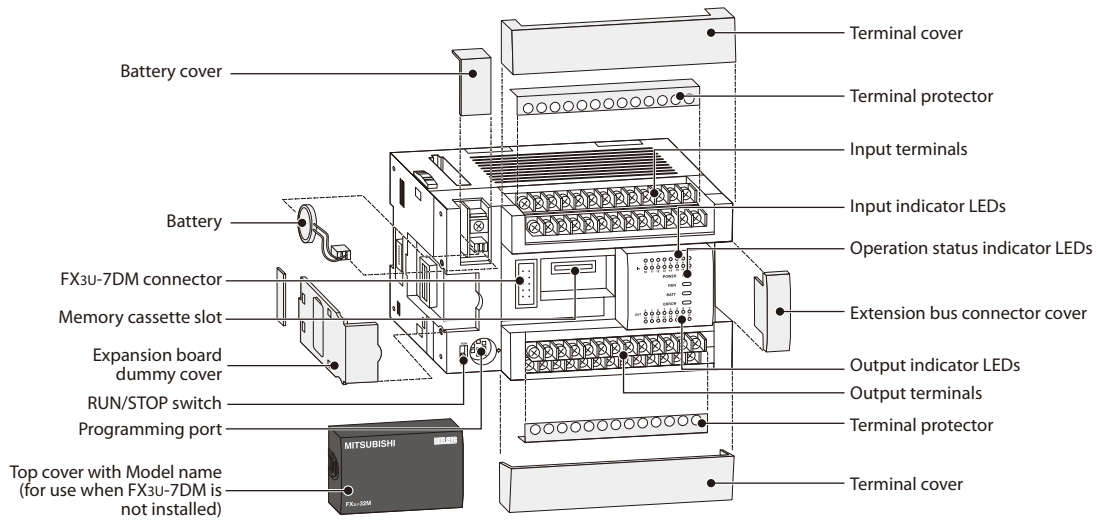


# DESCRIPTION OF UNIT COMPONENTS

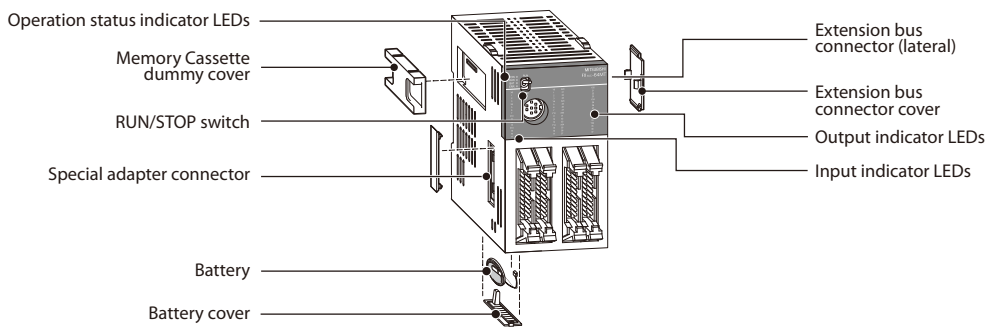
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FX MAIN UNITS

## FX3U



## FX3UC



## FX3G

