



## MATERIAL FACT SHEET

### 231491 FX3U-128MR/ES

#### General Data

Product Hierarchy	IAD213
	Compact PLC
	FX3U
Ext. Material Group	10 STANDARD ITEM
ABC Indicator	B (Limited Availability from Stock)

e-shop: <https://emea-fa.mitsubishielectric.com/fa/shop/material-page/00000000000231491>

#### FA-COM PLC: Main Unit

Series	MELSEC-F SERIES
Type	FX3U
Power Supply (V)	100-240
Current Type	AC
Program Memory	64K STEPS
Program Memory Unit	RAM
Integrated Digital Inputs	64
Integrated Digital Outputs	64
Output Type	RELAY
Local I/O Points	256
Local + Remote I/O Points	384
Expandable	YES
Cycle Time LD (ns)	65
Cycle Time MOV (ns)	642
USB	OPTION
RS-422	1
Power Consumption (W)	65
Buffer Battery	YES
Protection Class	IP10
Min. Ambient Temperature (°C)	0
Max. Ambient Temperature (°C)	55

#### Product Dimensions & Weight

Width (mm)	350
Height (mm)	90
Depth (mm)	86
Weight (kg)	1,8

#### Logistic Dimensions & Gross Weight

Length (cm)	41,5
Width (cm)	12,5
Height (cm)	11,5
Gross Weight (kg)	1,920
Volume (cdm)	5,966

#### Stock Data

Planned Delivery Time (Days)	175
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#### Life Cycle

Sales Start	18.03.2010
Predecessor	206141 / FX3U-128MR/ES
Successor	<a href="#">280495 / FX5U-80MR/ES</a>
Successor (2)	492978 / FX5UJ-60MR/ES

#### Additional Product Information

Binding Tariff Information	DEBTI-45394/25-1
BTI validity date	25.01.2029

Battery included	YES - CHECK SPARE PART LIST
Product Code	PLC(HIMEJI)

### Export Data

Commodity Code	85371091
Legal Control (Dual Use List)	Not Listed
Country of Origin	Japan (JP)
Preference Status (Supplier Declaration)	Non EU

### Environmental

REACH Limit Exceeded	YES
REACH Substance CAS Number	<a href="#">119-47-1</a>
REACH Substance CAS Number (2)	<a href="#">2451-62-9</a>
REACH Substance CAS Number (3)	<a href="#">25155-23-1</a>
REACH Substance CAS Number (4)	<a href="#">26523-78-4</a>
REACH Substance CAS Number (5)	<a href="#">29420-49-3</a>
REACH Substance CAS Number (6)	<a href="#">71868-10-5</a>
REACH Substance CAS Number (7)	<a href="#">7439-92-1</a>
REACH Substance CAS Number (8)	<a href="#">79-94-7</a>
Dangerous Goods Class	NO
Dangerous Goods Identifier	NO
RoHS Compliance	COMPLIANT
WEEE	B2B

### Conformity

CE	COMPLIANT
UL/cUL	COMPLIANT
EAC	NON-COMPLIANT
Shipping Approvals	ABS,BV,DNV GL,KR,LR,NK,RINA
UKCA	COMPLIANT

### Documentation & Media Data

Manual URL Indicator	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2f94&amp;q=FX3U-128MR/ES&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=bltdae25c2bd5f2f94&amp;q=FX3U-128MR/ES&amp;doc-lang=en</a>
Certificates URL Indicator	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FX3U-128MR/ES&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt8050dd1408c11cc2&amp;q=FX3U-128MR/ES&amp;doc-lang=en</a>
CAD URL Indicator	<a href="https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FX3U-128MR/ES&amp;doc-lang=en">https://emea.mitsubishielectric.com/fa/advanced-search?ct=document&amp;doc-cats=blt26ecc97a31a841c1&amp;q=FX3U-128MR/ES&amp;doc-lang=en</a>

### Product Packaging

Cardboard (g)	237
Other paper (g)	0
Aluminum (g)	0
Steel (g)	0
Styrofoam (g)	0
Other plastic (g)	0
Wood (g)	0
Glass (g)	0
Others (g)	0

### Spare parts

Material	Description	Quantity	Unit
87373	FX2N/FX3U 64/128 TERM BLOCK 42 PIN	1	PC
87375	FX2N/FX3U 32/80 ALL TERM BLOCK 24 PIN	1	PC
158989	FX1S/FX1N/FX3U DIN RAIL SLIDER	1	PC
<a href="#">165286</a>	FX3U-32BL Battery	1	PC
210200	FX3U CAP P.P. Adaptor, Connector	1	PC
210262	FX3U-128MR/MT ALL Case S Assy Body Case	1	PC
<a href="#">210278</a>	FX3U-16-128MR/MT ALL COVER BD COVER	1	PC
210279	FX3U-16-128MR/MT ALL Cover Battery Cove	1	PC
<a href="#">210280</a>	FX3U-16-128MR/MT ALL COVER EXT COVER	1	PC
211745	FX3U-16-128MR/MT ADAPTOR COVER	1	PC
211753	FX3U-FLROM-16/64 MEMORY COVER	1	PC
211754	FX3U-232-BD COVER	1	PC
211755	FX3U-485-BD COVER	1	PC
211756	FX3U-USB-BD COVER	1	PC
211758	FX3U-FLROM-64L MEMORY COVER	1	PC
<a href="#">211762</a>	FX3U-48 PCB CPU	1	PC
<a href="#">211764</a>	FX3U-128 PCB CPU	1	PC
211765	FX3U-128MR/ES I/O BOARD	1	PC

Material	Description	Quantity	Unit
<a href="#">211781</a>	FX3U-128MT/ES PCB I/O	1	PC
<a href="#">211782</a>	FX3U-128MT/ESS I/O BOARD	1	PC
<a href="#">211783</a>	FX3U16/32/48/64/80/128 PCB IF	1	PC
<a href="#">211786</a>	FX3U-128MR/MT/ES/ESS PCB POWER	1	PC
211798	FX3U-128 TERMINAL COVER	1	PC
212451	FX3U-128MR/ES BODY COVER	1	PC
212452	FX3U-128MT/ES BODY COVER	1	PC
212453	FX3U-128MT/ESS BODY COVER	1	PC
212462	FX3U-48/64/80/128 FUSE	1	PC
<a href="#">212463</a>	FX1N/FX1S/FX3U/FX5U Output Relay	1	PC
<a href="#">212464</a>	FX3S/FX3U TRANSISTOR	1	PC
<a href="#">220174</a>	FX3U-128M COVER TOP	1	PC

### Compatible products

Material	Description / Price List Text / Classification
<a href="#">31870</a>	FX-20P-CADP GOT FX Series Adapter cable; 0.3 m Class 100100110: FA-COM PLC: Cable
<a href="#">45348</a>	FX0N-65EC PLC, FX Series Connection Cable for Base and Extension units FX0N/FX2N, 0.65m Class 100100110: FA-COM PLC: Cable
<a href="#">70880</a>	FX2N-CNV-BC PLC, FX2N Adapter for FX extension or special function modules Class 100100111: FA-COM PLC: Other Option
<a href="#">76094</a>	FX-422CAB0 RS422 connection cable for FX0/0S/0N/2N Class 100100110: FA-COM PLC: Cable
<a href="#">159642</a>	FX-232AWC-H RS-422/RS-232C converter to connect FX PLC and PC Class 100100111: FA-COM PLC: Other Option
165268	FX3U-7DM PLC, FX Series Display Unit Class 100100111: FA-COM PLC: Other Option
<a href="#">165278</a>	FX3U-FLROM-16 PLC, FX3U Flash-RAM memory cassette; 16k steps PLC program Class 100100111: FA-COM PLC: Other Option
<a href="#">165279</a>	FX3U-FLROM-64 PLC, FX3U Series Flash-RAM memory cassette; 64k steps PLC program Class 100100111: FA-COM PLC: Other Option
<a href="#">165280</a>	FX3U-FLROM-64L PLC, FX3U Flash-RAM memory cassette; 64K steps PLC program; incl. copy function Class 100100111: FA-COM PLC: Other Option
<a href="#">165281</a>	FX3U-232-BD PLC, FX3U RS232C Interface module; for MELSEC FX3U Class 100100107: FA-COM PLC: Serial Com Module
<a href="#">165282</a>	FX3U-422-BD PLC, FX3U RS422 Interface module; for MELSEC FX3U Class 100100107: FA-COM PLC: Serial Com Module
<a href="#">165283</a>	FX3U-485-BD PLC, FX3U RS485 Interface module, 1:n Multidrop, network expansion until 50 m Class 100100107: FA-COM PLC: Serial Com Module
<a href="#">165284</a>	FX3U-USB-BD PLC, FX3U USB Interface module incl. USB cable (3m) Class 100100107: FA-COM PLC: Serial Com Module
<a href="#">165285</a>	FX3U-CNV-BD PLC, FX3U Communication adapter for MELSEC FX3U ADP special function modules Class 100100111: FA-COM PLC: Other Option
<a href="#">165286</a>	FX3U-32BL Battery Battery for PLC types FX3 / FX5 Class 100100112: FA-COM PLC: Spare Part
<a href="#">165286</a>	FX3U-32BL Battery Battery for PLC types FX3 / FX5 Class 100101303: FA-OTHERS: Battery
165287	FX3U-7DM-HLD PLC, FX Series Panel Mounting Kit for FX3U-7DM incl. 1.5m cable Class 100100111: FA-COM PLC: Other Option
<a href="#">165288</a>	FX-USB-AW PLC, Interface Converter USB/RS422 between PC and MELSEC PLC, 3 m Class 100100111: FA-COM PLC: Other Option

Material	Description / Price List Text / Classification
<a href="#">169507</a>	FX3U-1PSU-5V PLC, FX Series Power supply module for 5V bus Class 100100111: FA-COM PLC: Other Option
221271	FX-30P PLC, FX Series Hand-held programming unit Class 100100111: FA-COM PLC: Other Option
230104	FX3U-CF-ADP PLC, FX3U Data logger module; CF card slot; CSV file format Class 100100111: FA-COM PLC: Other Option
<a href="#">234630</a>	GX Works2 2L-USB PLC Programming Software for MELSEC Q/L/F, English, 2 Licences USB Class 100101201: FA-Software: Software PLC
234631	GX Works2 V01-5L0C-E PLC Programming –S/W for MELSEC Q/L/F;engl;USB;5 PC's Class 100101201: FA-Software: Software PLC
<a href="#">237307</a>	FX3U-8AV-BD PLC, FX3U analog setpoint adapter for 8 stpoints Class 100100111: FA-COM PLC: Other Option
244876	GX Works2 V01-2L0C-G PLC Programming –S/W for MELSEC Q/L/F Series; German; USB; 2 PCs Class 100101201: FA-Software: Software PLC
244877	GX Works2 V01-5L0C-G PLC Programming –S/W for MELSEC Q/L/F; USB; 5 PCs Class 100101201: FA-Software: Software PLC
<a href="#">245565</a>	FX3U-FLROM-1M SPS, FX3U(C) Memory cassette;1MB Class 100100111: FA-COM PLC: Other Option
<a href="#">248245</a>	FX-20P-CAB0 PLC, FX Series Connection Cable with FX-10P-E/FX-20P-ESET0/FX-10DM-E,1,5m Class 100100110: FA-COM PLC: Cable
261190	FX3U-CNV-BD-BS  Class 100100111: FA-COM PLC: Other Option
<a href="#">285598</a>	FX0N-30EC PLC, FX Series Connection Cable for Base and Extension units FX0N/FX2N, 0.30m Class 100100110: FA-COM PLC: Cable
<a href="#">286227</a>	iQ Works 2L-USB iQ Works V2.0,inc Navigator/GX/GT/MT Works/RT Toolbox3 inc SIM,Eng,2 Licence USB Class 100101201: FA-Software: Software PLC
<a href="#">286228</a>	iQ Works 5L-USB iQ Works V2.0,inc Navigator/GX/GT/MT Works/RT Toolbox3 inc SIM,Eng,5 Licence USB Class 100101201: FA-Software: Software PLC
303426	iQ Works V02-15L0C-E iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;15 PC's Class 100101201: FA-Software: Software PLC
338821	iQ Works V02-2L0C-G iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;German;USB;2 PC's Class 100101201: FA-Software: Software PLC
339022	iQ Works V02-5L0C-G iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;German;USB;5 PC's Class 100101201: FA-Software: Software PLC
401853	iQ Works V02-2L0C-IT iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;Italian;USB;2 PCs Class 100101201: FA-Software: Software PLC