



## MATERIAL FACT SHEET

### 301947 FX5U-80MT/DS

#### General Data

|                     |  |
|---------------------|--|
| Product Hierarchy   | IAD21701                               |
|                     | Compact PLC                            |
|                     | FX5U CPU                               |
| Ext. Material Group | 10 STANDARD ITEM                       |
| ABC Indicator       | C (Non-Stock Material / Make-to-Order) |

#### FA-COM PLC: Main Unit

|                               |                    |
|-------------------------------|--------------------|
| Series                        | MELSEC IQ-F SERIES |
| Type                          | FX5U               |
| Power Supply (V)              | 24                 |
| Current Type                  | DC                 |
| Program Memory                | 64K STEPS          |
| Program Memory Unit           | FLASH              |
| Integrated Digital Inputs     | 40                 |
| Integrated Digital Outputs    | 40                 |
| Integrated Analogue Inputs    | 2                  |
| Output Type                   | TRANSISTOR         |
| Output Logic                  | SINK               |
| Local I/O Points              | 256                |
| Local + Remote I/O Points     | 512                |
| Expandable                    | YES                |
| Cycle Time LD (ns)            | 34                 |
| Cycle Time MOV (ns)           | 34                 |
| Ethernet Port                 | 1                  |
| RS-485                        | 1                  |
| Power Consumption (W)         | 45                 |
| Buffer Battery                | OPTION             |
| Protection Class              | IP10               |
| Min. Ambient Temperature (°C) | 0                  |
| Max. Ambient Temperature (°C) | 55                 |

#### Product Dimensions & Weight

|             |     |
|-------------|-----|
| Width (mm)  | 285 |
| Height (mm) | 90  |
| Depth (mm)  | 83  |
| Weight (kg) | 1,2 |

#### Logistic Dimensions & Gross Weight

|                   |       |
|-------------------|-------|
| Length (cm)       | 35,0  |
| Width (cm)        | 12,0  |
| Height (cm)       | 11,0  |
| Gross Weight (kg) | 1,500 |
| Volume (cdm)      | 4,620 |

#### Stock Data

|                              |     |
|------------------------------|-----|
| Planned Delivery Time (Days) | 128 |
|------------------------------|-----|

#### Life Cycle

|             |                |
|-------------|----------------|
| Sales Start | 01.11.2016     |
| Predecessor | No Predecessor |

#### Additional Product Information

|                            |                  |
|----------------------------|------------------|
| Binding Tariff Information | DEBTI-10856/21-1 |
| BTI validity date          | 10.10.2024       |

## 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       | NO        |
| Dangerous Goods Class      | NO        |
| Dangerous Goods Identifier | NO        |
| RoHS Compliance            | COMPLIANT |
| WEEE                       | B2B       |

## Conformity

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

## Product Packaging

|                   |       |
|-------------------|-------|
| Cardboard (g)     | 242,2 |
| Other paper (g)   | 0     |
| Aluminum (g)      | 0     |
| Steel (g)         | 0     |
| Styrofoam (g)     | 0     |
| Other plastic (g) | 1,4   |
| Wood (g)          | 0     |
| Glass (g)         | 0     |
| Others (g)        | 0     |

## Spare parts

| Material               | Description                             | Quantity | Unit |
|------------------------|---|----------|------|
| <a href="#">302395</a> | FX5U-32/64/80Mx /ES/ESS COVER TOP       | 1        | PC   |
| <a href="#">302396</a> | FX5U-32/64/80Mx /ES/ESS COVER I/F       | 1        | PC   |
| <a href="#">302394</a> | FX5U-32/64/80Ex/Mx /ES/ESS COVER EXT    | 1        | PC   |
| <a href="#">302399</a> | FX5U-80Mx /ES/ESS COVER TERMINAL        | 1        | PC   |
| <a href="#">302400</a> | FX5U-32/64/80Mx /ES/ESS COVER CONNECTOR | 1        | PC   |
| <a href="#">302376</a> | FX5U-32/64/80Mx /ES/ESS PCB I/F         | 1        | PC   |
| <a href="#">302378</a> | FX5U-80Mx /ES/ESS TERMINAL BLOCK        | 1        | PC   |

## Compatible products

| Material               | Description / Price List Text / Classification   |
|------------------------|--|
| <a href="#">165286</a> | FX3U-32BL<br>PLC, FX3U/C Battery<br>Class 100100112: FA-COM PLC: Spare Part  |
| <a href="#">165286</a> | FX3U-32BL<br>PLC, FX3U/C Battery<br>Class 100101303: FA-OTHERS: Battery  |
| <a href="#">169507</a> | FX3U-1PSU-5V<br>PLC, FX Series Power supply module for 5V bus<br>Class 100100111: FA-COM PLC: Other Option                             |
| <a href="#">278166</a> | SC-E5EW-S45M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor;45m<br>Class 100100214: FA-MOD PLC: Cable |
| <a href="#">280509</a> | FX5-1PSU-5V<br>FX5;Power Supply Unit 5VDC Bus<br>Class 100100111: FA-COM PLC: Other Option   |
| <a href="#">280510</a> | FX5-CNV-BUS<br>FX5;FX3 Bus Conversion Unit<br>Class 100100111: FA-COM PLC: Other Option  |

| Material               | Description / Price List Text / Classification   |
|------------------------|--|
| <a href="#">280511</a> | FX5-232-BD<br>FX5;Serial Communication Board;RS-232<br>Class 100100107: FA-COM PLC: Serial Com Module  |
| <a href="#">280512</a> | FX5-485-BD<br>FX5;Serial Communication Board;RS-485<br>Class 100100107: FA-COM PLC: Serial Com Module  |
| <a href="#">280515</a> | FX5-422-BD-GOT<br>FX5;Serial Communication Board;RS-422;Communication to GOT only<br>Class 100100107: FA-COM PLC: Serial Com Module          |
| <a href="#">283557</a> | FX5-CNV-IFC<br>FX5UC;FX5U Bus Converter<br>Class 100100111: FA-COM PLC: Other Option   |
| <a href="#">283558</a> | FX5-CNV-BUSC<br>FX5UC;FX3 Bus Conversion Unit<br>Class 100100111: FA-COM PLC: Other Option   |
| <a href="#">284378</a> | GX Works3 V01-2L0C-E<br>PLC Programming-S/W for Melsec iQ-R/iQ- F; engl; USB; 2 PC's<br>Class 100101201: FA-Software: Software PLC           |
| <a href="#">284379</a> | GX Works3 V01-5L0C-E<br>PLC Programming-S/W for Melsec iQ-R/iQ- F; engl; USB; 5 PC's<br>Class 100101201: FA-Software: Software PLC           |
| <a href="#">284966</a> | NZ1MEM-2GBSD<br>SD Memory Card; 2 GByte<br>Class 100100215: FA-MOD PLC: Other Option   |
| <a href="#">284967</a> | NZ1MEM-4GBSD<br>SD Memory Card; 4 GByte<br>Class 100100215: FA-MOD PLC: Other Option   |
| <a href="#">284968</a> | NZ1MEM-8GBSD<br>SD Memory Card; 8 GByte<br>Class 100100215: FA-MOD PLC: Other Option   |
| <a href="#">284969</a> | NZ1MEM-16GBSD<br>SD Memory Card; 16 GByte<br>Class 100100215: FA-MOD PLC: Other Option   |
| <a href="#">286227</a> | iQ Works V02-2L0C-E<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;2 PC's<br>Class 100101201: FA-Software: Software PLC |
| <a href="#">286228</a> | iQ Works V02-5L0C-E<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;5 PC's<br>Class 100101201: FA-Software: Software PLC |
| <a href="#">291807</a> | SC-E5EW-S1M-MV<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor; 1m<br>Class 100100214: FA-MOD PLC: Cable     |
| <a href="#">291808</a> | SC-E5EW-S3M-MV<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor; 3m<br>Class 100100214: FA-MOD PLC: Cable     |
| <a href="#">294586</a> | FX5-C1PS-5V<br>FX5UC;Power Supply Unit 5VDC Bus<br>Class 100100111: FA-COM PLC: Other Option   |
| <a href="#">295425</a> | SC-E5EW-S05M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor; 0.5m<br>Class 100100214: FA-MOD PLC: Cable     |
| <a href="#">295426</a> | SC-E5EW-S1M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor; 1m<br>Class 100100214: FA-MOD PLC: Cable        |
| <a href="#">295427</a> | SC-E5EW-S3M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor; 2m<br>Class 100100214: FA-MOD PLC: Cable        |
| <a href="#">297455</a> | FX5-CNV-IF<br>FX5;FX5UC Bus converter<br>Class 100100111: FA-COM PLC: Other Option   |
| <a href="#">297456</a> | FX5-CNV-BC<br>FX5;Bus Extension cable connector<br>Class 100100111: FA-COM PLC: Other Option   |
| <a href="#">297457</a> | FX5-30EC<br>FX5;Bus Extension cable (0,3m)<br>Class 100100110: FA-COM PLC: Cable   |
| <a href="#">297458</a> | FX5-65EC<br>FX5;Bus Extension cable (0,65m)<br>Class 100100110: FA-COM PLC: Cable  |

| Material               | Description / Price List Text / Classification  |
|------------------------|---|
| <a href="#">303426</a> | iQ Works V02-15L0C-E<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;engl;USB;15 PC's<br>Class 100101201: FA-Software: Software PLC            |
| <a href="#">304614</a> | GX Works3 V01-2L0C-G<br>PLC Programming SW; Melsec iQ-R/iQ- F only (no GXW2/GX Dev); USB; 2 PCs; German<br>Class 100101201: FA-Software: Software PLC     |
| <a href="#">304645</a> | GX Works3 V01-5L0C-G<br>PLC Programming SW; Melsec iQ-R/iQ- F only (no GXW2/GX Dev); USB; 5 PCs; German<br>Class 100101201: FA-Software: Software PLC     |
| <a href="#">308856</a> | GX Works3 V01-2L0C-IT<br>PLC Programming-S/W for Melsec iQ-R/iQ- F;engl;USB;2 PC's; Italian<br>Class 100101201: FA-Software: Software PLC                 |
| <a href="#">338821</a> | iQ Works V02-2L0C-G<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;German;USB;2 PC's<br>Class 100101201: FA-Software: Software PLC            |
| <a href="#">339022</a> | iQ Works V02-5L0C-G<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;German;USB;5 PC's<br>Class 100101201: FA-Software: Software PLC            |
| <a href="#">340984</a> | Transcend SDHC card 16GB Class 10<br>SDHC memory card 16GB; Class 10; R: 30MB/s; W: 15MB/s<br>Class 100100304: FA-HMI: Other Option                       |
| <a href="#">401853</a> | iQ Works V02-2L0C-IT<br>iQ Works V2.0;incl Navigator,GX Works,GT Works,MT Works;Italian;USB;2 PCs<br>Class 100101201: FA-Software: Software PLC           |
| <a href="#">413182</a> | SC-E5EW-S10M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor;10m<br>Class 100100214: FA-MOD PLC: Cable                    |
| <a href="#">413183</a> | SC-E5EW-S25M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor;25m<br>Class 100100214: FA-MOD PLC: Cable                    |
| <a href="#">413184</a> | SC-E5EW-S5M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor; 5m<br>Class 100100214: FA-MOD PLC: Cable                     |
| <a href="#">413493</a> | TRIO-PS-2G/1AC/24DC/5<br>Power supply unit for 100-240V AC; Output 24V DC / 5A, DIN rail mounting<br>Class 100100304: FA-HMI: Other Option                |
| <a href="#">414700</a> | TRIO-PS-2G/1AC/24DC/3/C2LPS<br>Power supply unit for 100-240V AC; Output 24V DC / 3A C2LPS, DIN rail mounting<br>Class 100100304: FA-HMI: Other Option    |
| <a href="#">486376</a> | SC-E5EW-S2M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor; 2m<br>Class 100100214: FA-MOD PLC: Cable                     |
| <a href="#">486377</a> | SC-E5EW-S4M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor; 4m<br>Class 100100214: FA-MOD PLC: Cable                     |
| <a href="#">487403</a> | SC-E5EW-S15M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor;15m<br>Class 100100214: FA-MOD PLC: Cable                    |
| <a href="#">487404</a> | SC-E5EW-S20M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight; indoor;20m<br>Class 100100214: FA-MOD PLC: Cable                    |
| <a href="#">491761</a> | Verbatim microSDHC Card 16GB Class 10<br>MicroSDHC memory card 16GB; Class 10; R/W: 10MB/s; adapter included<br>Class 100100215: FA-MOD PLC: Other Option |
| <a href="#">506252</a> | TRIO-PS-2G/1AC/24DC/10<br>Primary switched power supply; input: single phase, output: 24 VDC/10A, DIN rail<br>Class 100100304: FA-HMI: Other Option       |
| <a href="#">506253</a> | TRIO-PS-2G/1AC/24DC/20<br>Primary switched power supply; input: single phase, output: 24 VDC/20A, DIN rail<br>Class 100100304: FA-HMI: Other Option       |
| <a href="#">506254</a> | TRIO-PS-2G/3AC/24DC/20<br>Primary switched power supply; input: 3-phase, output: 24 VDC/20A, DIN rail<br>Class 100100304: FA-HMI: Other Option            |
| <a href="#">506255</a> | TRIO-PS-2G/3AC/24DC/40<br>Primary switched power supply; input: 3-phase, output: 24 VDC/40A, DIN rail<br>Class 100100304: FA-HMI: Other Option            |
| <a href="#">557483</a> | SC-E5EW-S100M<br>Ethernet cable; CC-Link IE; category 5e; dbl. shielded/STP; straight;indoor;100m<br>Class 100100214: FA-MOD PLC: Cable                   |

| Material | Description / Price List Text / Classification   |
|----------|--|
| 612154   | FX5-CNV-BUS-BS<br>FX5;FX3 Bus Conversion Unit; coated<br>Class 100100111: FA-COM PLC: Other Option                             |
| 612156   | FX5-CNV-IFC-BS<br>FX5UC;FX5U Bus Converter; coated<br>Class 100100111: FA-COM PLC: Other Option                                |
| 612268   | Transcend SDHC Card 8GB Class 4<br>SDHC memory card 8GB; Class 4; R: 18MB/s; W: 6MB/s<br>Class 100100304: FA-HMI: Other Option |