

# Your Industrial Ethernet Solutions for Control and Automation

Product  
Catalog

Gigabit Ethernet

Video / Audio  
Ethernet I/O  
DCS / PLC / PAC  
HMI



 MTL  
Instruments  
**MOXA**<sup>®</sup>

Industrial Media Converters



## Industrial Media Converters

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# 10

Industrial  
Media  
Converters

# IMC-101G Series

## Industrial Gigabit Ethernet to fiber media converter



- > 10/100/1000BaseT(X) and 1000BaseSFP slot supported
- > Link Fault Pass-Through (LFP)
- > Power failure, port break alarm by relay output
- > Redundant power input
- > -40 to 75°C operating temperature range (T models)
- > Certified to operate in hazardous locations



### Introduction

The IMC-101G industrial Gigabit media converters are designed to provide reliable and stable 10/100/1000BaseT(X) to SFP media conversion in harsh industrial environments. The IMC-101G's industrial design is excellent for keeping your industrial automation applications running continuously, and each IMC-101G converter

comes with a relay output warning alarm to help prevent damage and loss. All IMC-101G models are subjected to a 100% burn-in test, and are available in models that support a standard operating temperature range of 0 to 60°C, and an extended operating temperature range of -40 to 75°C.

### Specifications

#### Technology

**Standards:** IEEE 802.3 for 10BaseT,  
IEEE 802.3u for 100BaseT(X) and 100BaseFX,  
IEEE 802.3ab for 1000BaseT(X),  
IEEE 802.3z for 1000BaseSX/LX/LHX/ZX

#### Interface

**RJ45 Ports:** 10/100/1000BaseT(X)

**Fiber Ports:** 1000BaseSFP slot

**LED Indicators:** PWR1, PWR2, FAULT, 10/100M (TP port), 1000M (TP and Fiber port)

**DIP Switch:** Port break alarm mask, Link Fault Pass-Through, Fiber AN/Force

**Alarm Contact:** One relay output with current carrying capacity of 1A @ 24 VDC

#### Power Requirements

**Input Voltage:** 24 VDC (12 to 45 VDC), redundant inputs

**Input Current (@ 24 V):** 0.11A

**Connection:** Removable terminal block

**Overload Current Protection:** 1.1A

**Reverse Polarity Protection:** Present

#### Physical Characteristics

**Casing:** IP30 protection, metal case

**Dimensions (W x H x D):** 53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in.)

**Weight:** 630 g

**Installation:** DIN-Rail mounting, wall mounting (optional kit)

#### Environmental Limits

**Operating Temperature:** 0 to 60°C (32 to 140°F),  
-40 to 75°C (-40 to 167°F) for T models

**Storage Temperature:** -40 to 85°C (-40 to 185°F)

**Ambient Relative Humidity:** 5 to 95% (non-condensing)

#### Regulatory Approvals

**Safety:** UL508

**EMI:** FCC Part 15, CISPR (EN55022) class A

**EMS:** EN61000-4-2 (ESD), level 3

EN61000-4-3 (RS), level 3

EN61000-4-4 (EFT), level 3

EN61000-4-5 (Surge), level 3

EN61000-4-6 (CS), level 3

EN61000-4-8

EN61000-4-11

**Shock:** IEC 60068-2-27

**Freefall:** IEC 60068-2-32

**Vibration:** IEC 60068-2-6

**MTBF:** 500,000 hrs

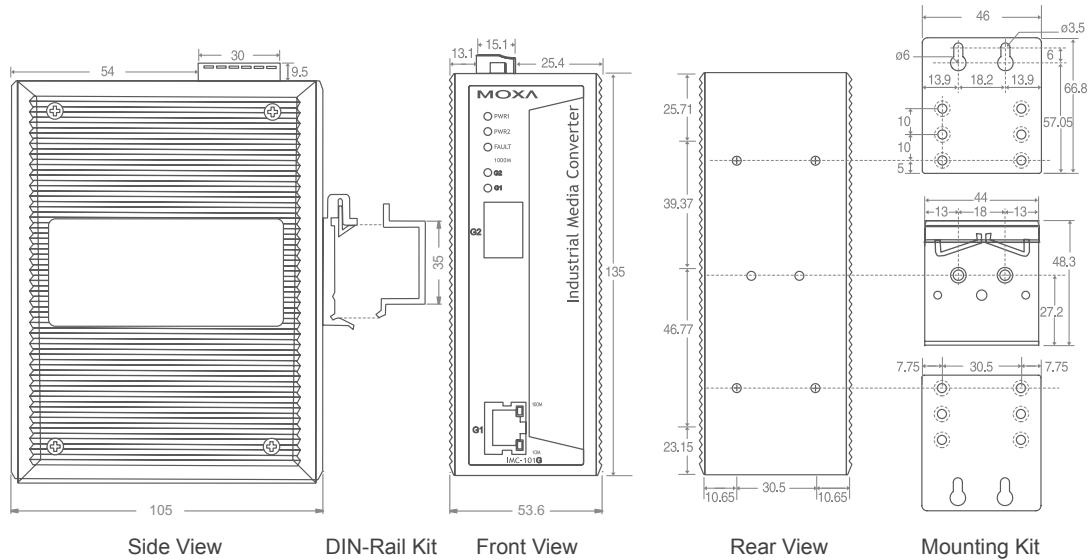
Database: Telcordia (Bellcore), GB

\*Please check Moxa's website for the most up-to-date status.

#### Warranty

5 years (see [www.moxa.com/warranty](http://www.moxa.com/warranty) for details)

Dimensions (unit = mm)



Ordering Information

- **IMC-101G:** Industrial 10/100/1000BaseT(X) to 1000BaseSX/LX/LHX/ZX media converter, 0 to 60°C
- **IMC-101G-T:** Industrial 10/100/1000BaseT(X) to 1000BaseSX/LX/LHX/ZX media converter, -40 to 75°C
- \* IMC-101G series supports 1 1000BaseSFP slot. Please see page 2-23 for the product information of SFP-1G series Gigabit Ethernet SFP modules.

Optional Accessories

- **DR-4524:** 45W/2A DIN-Rail 24 VDC power supply, 85 to 264 VAC input
- **DR-75-24:** 75W/3.2A DIN-Rail 24 VDC power supply, 85 to 264 VAC input
- **DR-120-24:** 120W/5A DIN-Rail 24 VDC power supply, 88 to 132 VAC/176 to 264 VAC input by switch
- **WK-46:** Wall mounting kit
- **RK-4U:** 4U-high 19" rack mounting kit

# IMC-101 Series

## Industrial 10/100BaseT(X) to 100BaseFX media converter



- > 10/100BaseT(X) auto-negotiation and auto-MDI/MDI-X
- > Link Fault Pass-Through (LFP)
- > Power failure, port break alarm by relay output
- > Redundant power inputs
- > -40 to 75°C operating temperature range (T models)
- > Certified to operate in hazardous locations (Class 1, Div. 2/Zone 2)



### Introduction

The IMC-101 industrial media converters provide industrial grade media conversion between 10/100BaseT(X) and 100BaseFX (SC/ST connectors). The IMC-101's reliable industrial design is excellent for keeping your industrial automation applications running continuously, and each IMC-101 converter comes with a relay output warning alarm to help prevent damage and loss. The IMC-101 media converters are certified for harsh industrial environments, such as in hazardous

locations (Class 1, Division 2/Zone 2, DNV, and GL Certification), and comply with FCC, UL, and CE standards. The IMC-101 series is available with models that support an operating temperature of 0 to 60°C, and an extended operating temperature of -40 to 75°C. All IMC-101 series are subjected to a 100% burn-in test.

### Specifications

#### Technology

**Standards:** IEEE 802.3 for 10BaseT,  
IEEE 802.3u for 100BaseT(X) and 100BaseFX

#### Interface

**RJ45 Ports:** 10/100BaseT(X)

**Fiber Ports:** 100BaseFX (SC/ST connectors)

**LED Indicators:** PWR1, PWR2, FAULT, 10/100M (TP port), 100M (Fiber port), FDX/COL (Fiber port)

**DIP Switch:** 100BaseFX Full/Half duplex selection, port break alarm mask

**Alarm Contact:** One relay output with current carrying capacity of 1A @ 24 VDC

#### Optical Fiber

	100BaseFX		
	Multi Mode	Single Mode	Single Mode, 80 km
Wavelength	1300 nm	1310 nm	1550 nm
Max. TX	-10 dBm	0 dBm	0 dBm
Min. TX	-20 dBm	-5 dBm	-5 dBm
RX Sensitivity	-32 dBm	-34 dBm	-34 dBm
Link Budget	12 dB	29 dB	29 dB
Typical Distance	5 km <sup>a</sup> 4 km <sup>b</sup>	40 km <sup>c</sup>	80 km <sup>d</sup>
Saturation	-6 dBm	-3 dBm	-3 dBm

a. 50/125 μm, 800 MHz\*km fiber optic cable

b. 62.5/125 μm, 500 MHz\*km fiber optic cable

c. 9/125 μm, 3.5 PS/(nm\*km) fiber optic cable

d. 9/125 μm, 19 PS/(nm\*km) fiber optic cable

#### Power Requirements

**Input Voltage:** 24 VDC (12 to 48 VDC), redundant inputs

**Input Current (@ 24 V):** 0.16A

**Connection:** Removable terminal block

**Overload Current Protection:** 1.1A

**Reverse Polarity Protection:** Present

#### Physical Characteristics

**Casing:** IP30 protection, metal case

**Dimensions (W x H x D):** 53.6 x 135 x 105 mm (2.11 x 5.31 x 4.13 in.)

**Weight:** 630 g

**Installation:** DIN-Rail mounting, wall mounting (optional kit)

#### Environmental Limits

**Operating Temperature:** 0 to 60°C (32 to 140°F),  
-40 to 75°C (-40 to 167°F) for T models

**Storage Temperature:** -40 to 85°C (-40 to 185°F)

**Ambient Relative Humidity:** 5 to 95% (non-condensing)

#### Regulatory Approvals

**Safety:** UL508, UL60950-1, CSA C22.2 No. 60950-1, EN60950-1

#### Hazardous Location:

UL/cUL Class1, Division 2, Groups A, B, C, and D;  
ATEX Class1, Zone 2, Ex nC IIC (IMC-101-M-ST and IMC-101-S-SC-80 pending)

**Maritime:** DNV, GL

**EMI:** FCC Part 15, CISPR (EN55022) class A

**EMS:** EN61000-4-2 (ESD), level 3

EN61000-4-3 (RS), level 3

EN61000-4-4 (EFT), level 3

EN61000-4-5 (Surge), level 3  
 EN61000-4-6 (CS), level 3  
 EN61000-4-8  
 EN61000-4-11

**Shock:** IEC 60068-2-27

**Freefall:** IEC 60068-2-32

**Vibration:** IEC 60068-2-6

**MTBF:** 401,000 hrs

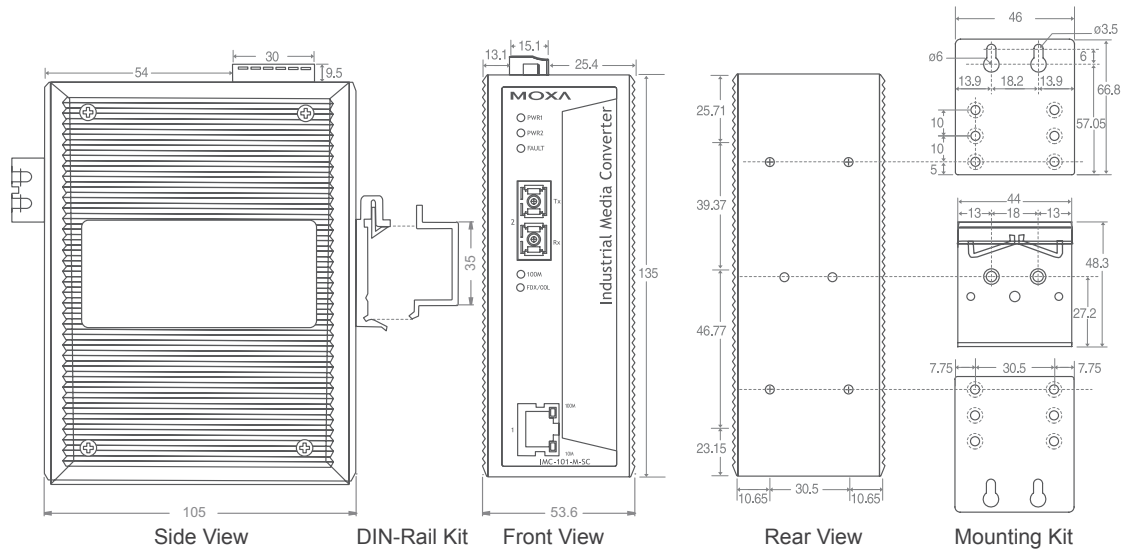
Database: MIL-HDBK-217F, GB 25°C

\*Please check Moxa's website for the most up-to-date status.

**Warranty**

5 years (see www.moxa.com/warranty for details)

**Dimensions (unit = mm)**



**Ordering Information**

- **IMC-101-M-SC:** Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, SC connector, 0 to 60°C
- **IMC-101-M-ST:** Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, ST connector, 0 to 60°C
- **IMC-101-S-SC:** Industrial 10/100BaseT(X) to 100BaseFX media converter, single mode, SC connector, 40 km, 0 to 60°C
- **IMC-101-S-SC-80:** Industrial 10/100BaseT(X) to 100BaseFX media converter, single mode, SC connector, 80 km, 0 to 60°C
- **IMC-101-M-SC-T:** Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, SC connector, -40 to 75°C
- **IMC-101-M-ST-T:** Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, ST connector, -40 to 75°C
- **IMC-101-S-SC-T:** Industrial 10/100BaseT(X) to 100BaseFX media converter, single mode, SC connector, 40 km, -40 to 75°C
- **IMC-101-S-SC-80-T:** Industrial 10/100BaseT(X) to 100BaseFX media converter, single mode, SC connector, 80 km, -40 to 75°C

**Optional Accessories**

- **DR-4524:** 45W/2A DIN-Rail 24 VDC power supply, 85 to 264 VAC input
- **DR-75-24:** 75W/3.2A DIN-Rail 24 VDC power supply, 85 to 264 VAC input
- **DR-120-24:** 120W/5A DIN-Rail 24 VDC power supply, 88 to 132 VAC/176 to 264 VAC input by switch
- **WK-46:** Wall mounting kit
- **RK-4U:** 4U-high 19" rack mounting kit

# IMC-21 Series

*Entry-level industrial 10/100BaseT(X) to 100BaseFX and 10BaseT to 10BaseFL media converter*



- > Multi mode, single mode with SC or ST fiber connector
- > Link Fault Pass-Through (LFP)
- > Power inputs: 12 to 45 VDC, 18 to 30 VAC (47-63 Hz)
- > -10 to 60°C operating temperature range
- > DIP Switch to select FDX/HDX/10/100/Auto/Force



## Introduction

The IMC-21 series are entry-level 10/100BaseT(X) to 100BaseFX and 10BaseT to 10BaseFL media converters designed to provide reliable and stable operation in harsh industrial environments. The IMC-21 is a cost-effective solution that runs on either a 12 to 45 VDC power input or 18 to 30 VAC power input. The IMC-21 can operate

reliably in temperatures ranging from -10 to 60°C, and the rugged hardware design ensures that your Ethernet equipment can withstand demanding industrial conditions. The IMC-21 is easy to mount on a DIN-Rail or in distribution boxes.

## Specifications

### Technology

**Standards:** IEEE 802.3 for 10BaseT,  
IEEE 802.3u for 100BaseT(X) and 100BaseFX,  
IEEE 802.3x for Flow Control

### Interface

#### RJ45 Ports:

- IMC-21-M-SC, IMC-21-M-ST, IMC-21-S-SC: 10/100BaseT(X)
- IMC-21-M-ST-FL: 10BaseT

#### Fiber Ports:

- IMC-21-M-SC, IMC-21-M-ST, IMC-21-S-SC: 100BaseFX (SC/ST connectors)
- IMC-21-M-ST-FL: 10BaseFL (ST connector only)

#### LED Indicators:

- IMC-21-M-SC, IMC-21-M-ST, IMC-21-S-SC: Power, 10/100M (TP port), 100M (fiber port), FDX/COL (fiber port)
- IMC-21-M-ST-FL: Power, LNK/ACT (fiber port), LNK/ACT (TP port)

#### DIP Switch:

- IMC-21-M-SC, IMC-21-M-ST, IMC-21-S-SC:
  - 10/100M (TP port), Half/Full mode (TP and FX ports), Force/Auto mode (TP port), Link Fault Pass-Through (LFP)
- IMC-21-M-ST-FL:
  - MDI/MDI-X (TP port), Half/Full mode (TP port)

### Optical Fiber

**Distance:** 10BaseFL: 2 km, 820 nm  
100BaseFX (Multi mode): 5 km, 1300 nm  
100BaseFX (Single mode): 40 km, 1310 nm

**Min. TX Output:** 10BaseFL: -16 dBm  
100BaseFX (Multi mode): -20 dBm  
100BaseFX (Single mode): -5 dBm

**Max. TX Output:** 10BaseFL: -7 dBm  
100BaseFX (Multi mode): -14 dBm  
100BaseFX (Single mode): 0 dBm

**RX Sensitivity:** 10BaseFL: -34.1 dBm  
100BaseFX (Multi mode): -34 to -30 dBm  
100BaseFX (Single mode): -36 to -32 dBm

### Power Requirements

**Input Voltage:** 12 to 45 VDC, 18 to 30 VAC (47-63 Hz)  
**Power Consumption (@ 24 V):** 0.15A  
**Connection:** Removable 3-contact terminal block  
**Overload Current Protection:** 1.1A  
**Reverse Polarity Protection:** Present

### Physical Characteristics

**Casing:** IP30 protection, plastic case  
**Dimensions (W x H x D):** 25 x 100 x 74 mm (0.98 x 3.93 x 2.91 in.)  
**Weight:** 125 g  
**Installation:** DIN-Rail mounting

### Environmental Limits

**Operating Temperature:** -10 to 60°C (14 to 140°F)  
**Storage Temperature:** -40 to 70°C (-40 to 158°F)  
**Ambient Relative Humidity:** 5 to 95% (non-condensing)

**Regulatory Approvals**

**Safety:** UL508, UL60950-1, CSA C22.2 No. 60950-1, EN60950-1

**EMI:** FCC Part 15, CISPR (EN55022) class A

**EMS:** EN61000-4-2 (ESD)

EN61000-4-3 (RS)

EN61000-4-4 (EFT)

EN61000-4-5 (Surge)

EN61000-4-6 (CS)

**Shock:** IEC 60068-2-27

**Freefall:** IEC 60068-2-32

**Vibration:** IEC 60068-2-6

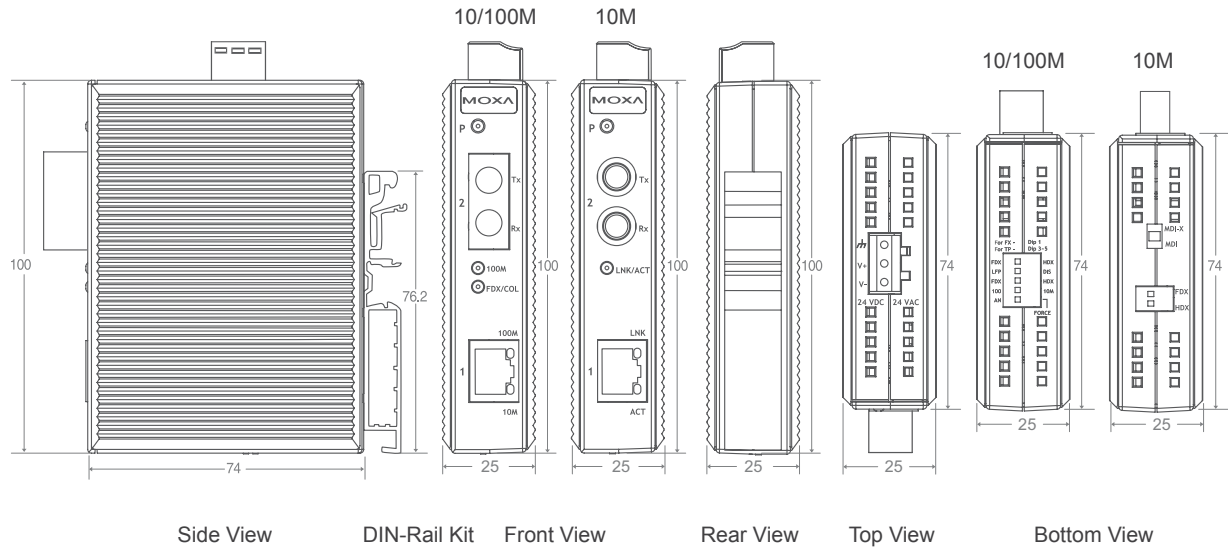
**MTBF:** 353,000 hrs

Database: MIL-HDBK-217F, GB 25°C

**Warranty**

5 years (see [www.moxa.com/warranty](http://www.moxa.com/warranty) for details)

**Dimensions (unit = mm)**



**Ordering Information**

- **IMC-21-M-SC:** Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, SC connector, -10 to 60°C
- **IMC-21-M-ST:** Industrial 10/100BaseT(X) to 100BaseFX media converter, multi mode, ST connector, -10 to 60°C
- **IMC-21-S-SC:** Industrial 10/100BaseT(X) to 100BaseFX media converter, single mode, SC connector, -10 to 60°C
- **IMC-21-M-ST-FL:** Industrial 10BaseT to 10BaseFL media converter, multi mode, ST connector, -10 to 60°C

**Optional Accessories**

- **DR-4524:** 45W/2A DIN-Rail 24 VDC power supply, 85 to 264 VAC input
- **DR-75-24:** 75W/3.2A DIN-Rail 24 VDC power supply, 85 to 264 VAC input
- **DR-120-24:** 120W/5A DIN-Rail 24 VDC power supply, 88 to 132 VAC/176 to 264 VAC input by switch
- **RK-4U:** 4U-high 19" rack mounting kit



# ABC-01

## Industrial RS-232 RJ45-based automatic configuration backup solution



- > Reduce system down time without extra power input
- > Plug-n-Play system backup and restoration
- > Front notes for identification
- > Compact, rugged and reliable design
- > Support Moxa's managed Ethernet switches and wireless product (AWK-3121)



### Features

- RS-232 RJ45 console port connection
- Complete configuration storage for Moxa's managed Ethernet switches and wireless product (AWK-3121)
- Automatic loading of system configuration after system reboots
- Manual loading and saving of system configuration through web console
- Portable low-power design that requires no power supply
- CE and FCC approval

### Introduction

Automatic Backup Configuration, ABC-01 can save and load the configuration of Moxa's managed Ethernet switches and wireless product (AWK-3121) via RS-232 console port. ABC-01 thus makes it easier to manage the backup of system parameters or replacement of

an Ethernet switch and wireless product. With the assistance of the ABC-01, users can quickly re-install a substitute product (of the same model) and/or recover the entire system configuration, including IP address, if any failure occurs.

### Specifications

#### Operation

**Connectors:** RS-232 RJ45 port

**Power Requirement:** 3 to 5 VDC, power input via RS-232 RTS

**Configuration:** via Moxa managed Ethernet switches' and wireless product's (AWK-3121) web console

#### Physical Characteristics

**Casing:** PVC molding, IP40

**Dimension (W x H x D):** 32.5 x 97 x 12 mm (1.28 x 3.82 x 0.47 in.)

**Weight:** 50 g

**Installation:** M4 screw (< 4 mm)

**Cable Length:** 35 cm, including connectors

#### Environmental Limits

**Operating Temperature:** 0 to 60°C (32 to 140°F)

**Storage Temperature:** -20 to 70°C (-4 to 158°F)

**Ambient Relative Humidity:** 5 to 95 % (non-condensing)

#### Regulatory Approvals

**EMI:** FCC Part 15, CISPR (EN55022) class A

**EMS:** EN61000-4-2 (ESD), level 3

EN61000-4-3 (RS), level 3

EN61000-4-4 (EFT), level 3

EN61000-4-5 (Surge), level 3

EN61000-4-6 (CS), level 3

#### Warranty






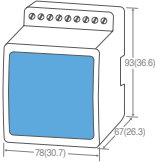
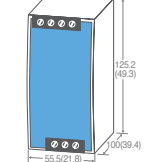
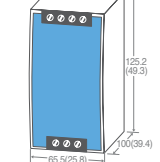
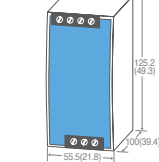
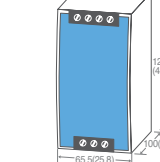
5 years (see [www.moxa.com/warranty](http://www.moxa.com/warranty) for details)

### Ordering Information

**ABC-01:** RS-232 RJ45-based automatic backup configurator, 0 to 60°C

# DIN-Rail Power Supplies

## DIN-Rail 24/48 VDC Power Supplies

Model	DR-4524	DR-75-24	DR-120-24	DR-75-48	DR-120-48
DIN-Rail 24/48 VDC power supplies					
Dimensions Unit: mm (W x H x D)	 78 x 93 x 67 mm	 55.5 x 125.2 x 100 mm	 65.5 x 125.2 x 100 mm	 55.5 x 125.2 x 100 mm	 65.5 x 125.2 x 100 mm
Power	45W	75W	120W	75W	120W
Input	85-264 VAC (47-63 Hz) or 120-370 VDC		88-132 VAC/176-264 VAC (47-63 Hz) by switch or 248-370 VDC	85-264 VAC (47-63 Hz) or 120-370 VDC	88-132 VAC/176-264 VAC (47-63 Hz) by switch or 248-370 VDC
Output	48W, 24 VDC, 0-2A	76.8W, 24 VDC, 0-3.2A	120W, 24 VDC, 0-5A	76.8W, 48 VDC, 0-1.6A	120W, 48 VDC, 0-2.5A
Over voltage protection	115-135% of rated output voltage	29-33V			
Overload protection	105-150%				
Type	Constant current limiting				
Reset	Auto recovery				
Inrush current	30A/115V or 60A/230V				
Weight	400 g	550 g	650 g	550 g	650 g
Working temp. and relative humidity	-10 to 50°C to 90% RH	-10 to 60°C, 20 to 90% RH			
Warranty	3 years				
Safety standards	TÜV EN60950-1, UL508 approved				
EMC standards	CISPR22 (EN55022) class B, EN61000-4-2, 3, 4, 5, 6, 8, 11, ENV50204, EN61000-3-2, -3, EN50082-2				

## Ordering Information

- **DR-4524:** 45W/2A DIN-Rail 24 VDC power supply with universal 85 to 264 VAC input
- **DR-75-24:** 75W/3.2A DIN-Rail 24 VDC power supply with universal 85 to 264 VAC input
- **DR-120-24:** 120W/5A DIN-Rail 24 VDC power supply with 88 to 132 VAC/176 to 264 VAC input by switch
- **DR-75-48:** 75W/1.6A DIN-Rail 48 VDC power supply with universal 85 to 264 VAC input
- **DR-120-48:** 120W/2.5A DIN-Rail 48 VDC power supply with 88 to 132 VAC/176 to 264 VAC input by switch



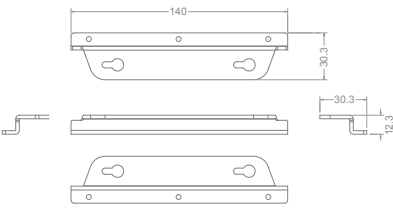
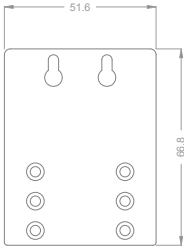



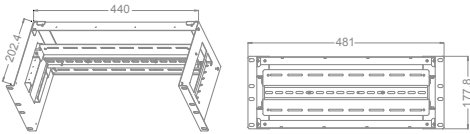
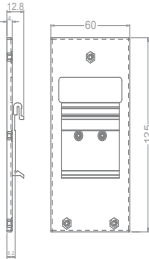
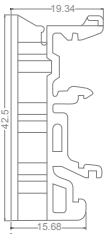
# Mounting Kits

• Wall mounting, rack mounting, and DIN-Rail mounting kits

11

Accessories

Mounting Kits

Model	WK-32	WK-46	
Mounting Kit			
Matched Products	<b>Modular Ethernet Switch:</b> EDS-828/728 series	<b>Managed Ethernet Switch:</b> EDS-G509/500A/400A and PX-1510 series <b>Unmanaged Ethernet Switch:</b> EDS-G308/P308/316/309/308/305 series <b>Wireless AP/Bridge/AP Client:</b> AWK-3121/1100 series <b>Media Converter:</b> IMC-101G/101 series <b>Video Server:</b> VPort 354/351/3310/D351 series	
Dimensions (W x H x D)	 30.3 x 140 x 12.3 mm	 51.6 x 66.8 x 1 mm	
Model	RK-4U	DK-M12-305	DK-35A
Mounting Kit			
Matched Products	<b>Managed Ethernet Switch:</b> EDS-G509/500A/400A and PX-1510 series <b>Unmanaged Ethernet Switch:</b> EDS-G308/P308/316/309/308/305/200A/200 series <b>Wireless AP/Bridge/AP Client:</b> AWK-3121/1100 series <b>Media Converter:</b> IMC-101G/101/21 series <b>Video Server:</b> VPort 354/351/3310/D351 series	<b>Unmanaged Ethernet Switch:</b> EDS-305-M12 series	<b>Video Server:</b> VPort 251/2141 series
Dimensions (W x H x D)	 481 x 177.8 x 202.4 mm	 60 x 125 x 12.8 mm	 42.5 x 10 x 19.34 mm

## Ordering Information

- **WK-32:** Wall mounting kit for EDS-828/728 series
- **WK-46:** Wall mounting kit
- **RK-4U:** 4U-high 19" rack mounting kit
- **DK-M12-305:** DIN-Rail mounting kit for EDS-305-M12 series
- **DK-35A:** DIN-Rail mounting kit for VPort 251/2141 series

# Multi-mode Optical Fiber Patch Cords

These fiber optic patch cords can be used with the following products:

**Multi-mode models of industrial Ethernet switches, VPort 354/VPort 351 industrial video encoders, and industrial media converters**

## Features

- Standard multi-mode (graded index)
- Duplex for TX/RX, cable is joined together in lamp-cord fashion for easy separation when installing
- 62.5/125 micron core fiber
- Ceramic ferrules offer a typical insertion loss of  $\leq 0.5$  dB
- Operating temperature: -20 to 75°C (-4 to 167°F)
- Storage temperature: -40 to 85°C (-40 to 185°F)
- Standards: IEC607932-2
- Wavelength: 850/1300 nm

## Ordering Information

### SC to SC Connectors

Optical fiber patch cords, full duplex multi-mode, 62.5 microns



Model Name	Cable Length
PA-MM(62.5)-2SC2SC-1M	1 meter
PA-MM(62.5)-2SC2SC-3M	3 meters
PA-MM(62.5)-2SC2SC-5M	5 meters
PA-MM(62.5)-2SC2SC-10M	10 meters

### ST to ST Connectors

Optical fiber patch cords, full duplex multi-mode, 62.5 microns



Model Name	Cable Length
PA-MM(62.5)-2ST2ST-1M	1 meter
PA-MM(62.5)-2ST2ST-3M	3 meters
PA-MM(62.5)-2ST2ST-5M	5 meters
PA-MM(62.5)-2ST2ST-10M	10 meters

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