



## BC-102F

Unmanaged Industrial  
Ethernet Media Converter

### Ordering information

Model	Descriptions
BC-102FM	Industrial Ethernet Media Converter unmanaged 1-port 100Base-FX Multimode(SC) fiber ports 2Km. and 2-port TP(RJ45) support 10/100Base-T(X)
BC-102FS	Industrial Ethernet Media Converter unmanaged 1-port 100Base-FX SingleMode(SC) fiber ports 20Km. and 2-port TP(RJ45) support 10/100Base-T(X)



### Product Descriptions

#### Introduction:

BC-102F is a speediness 10/100Base-TX Industrial Ethernet Media Converter, easy to connect server, repeater, switch, device to device, Can satisfy customers require for long distance, high speed, wide broadcast. BC-102F series supports 2 TP ports and 1 fiber ports. TP(RJ45) support 10/100Base-T(X), Full/Half duplex mode, and auto MDI/MDI-X connection; 100BaseFX supports single-/multi-mode, SC/ST connector, optional.

BC-102F adopt industry standard design, IP30 protection, rugged high-strength metal case, power supply input (12V~36VDC), -40 to 75°C working temperature.

#### Features:

1. IEEE802.3/802.3u/802.3x,store and forward
2. Plug-and-play, easy to installation
3. 10/100M, F/H duplex, MDI/MDI-X auto negotiation
4. -40 to 75°C operating temperature range
5. Designed for industrial applications. IP30 protection, rugged high-strength metal case

### Product Standard

#### Specification:

##### Interface

Standards: comply with IEEE802.1 10Base-T, IEEE802.3u 100Base-TX, IEEE802.3 100Base-FX

RJ45 port rate: 10/100BaseT(X) auto connection, F /H duplex or force work mode, and support MDI/MDI-X connection

Fiber Ports: 100BaseFX ports (SC/ST connector, optional)

Single-mode: 20, 40,60, 80, 120Km,optional

Multi-mode: 2,5Km,optional

Wavelength: 850nm, 1310 nm, 1550nm

Typical 100Base-FX: Multi-mode:155Mbps, 1310nm, 2Km, average output $\geq$ -18dBm, sensitivity $\leq$ -35dBm

Single-mode: 155Mbps, 1310nm, 20Km, average output  $\geq$ -12dBm, sensitivity $\leq$ -36dBm

##### Power

Input Voltage: 24VDC (12VDC~36VDC)

Opposite connection protection

##### Mechanical

Dimensions: 103mm×78mm×32mm (H×W×D)

Casing: IP30 protection, Metal case

Weight: 350g

##### Environmental

Operating Temperature: -40 to 75°C

Storage Temperature: -45 to 85 °C

Ambient Relative Humidity: 10% to 95% (non-condensing)

#### Approvals

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

EMS: EN61000-4-2 (ESD), Level 4

EN61000-4-3 (RS), Level 4

EN61000-4-4 (EFT), Level 4

EN61000-4-5 (Surge), Level 4

EN61000-4-6 (CS), Level 4

EN61000-4-8, Level 4

EN61000-4-11, level 4

Shock: IEC 60068-2-27 PASS

Free Fall: IEC 60068-2-32 PASS

Vibration: IEC 60068-2-6 PASS

Approvals: FCC, CE, RoHS approvals