Basic Connections!
Media Conversion Family

Illustrated: Basic Connection! Media Conversion Family

Basic Connections! is a family of very economical, simple to deploy, no-frills Media Converters that provide basic Gigabit Ethernet and Fast Ethernet connections. While some of the rich array of features found on standard Canary models may not be present, they provide solid performance, value, and utility. Each group has models that support either UTP-to-Fiber or Fiber-to-Fiber conversion, providing very economical links between twisted-pair segments, low-cost multi-mode fiber optic segments, and single-mode Fiber segments. They are ideal for data intensive backbones in the enterprise or across the campus where cost is paramount and/or where major structural changes to the network architecture are expected in a relatively short time.

Basic connections ... where cost is paramount.

Economic basic Gigabit and Fast Ethernet connections.

CANARY
communications

Power Supply:
- External
- Input: 120 VAC, 60 Hz
- Output: 12 VDC 0.8 Amp

Environmental:
- Operating Temp.:   0 to 55ºC
- Storage Temp.:   -10 to 70ºC
- Relative Humidity: 5% to 95% non-condensing

Mechanical:
- Height: 0.9″ (2.3 cm)
- Length: 4.3″ (10.9 cm)
- Width: 2.9″ (7.4 cm)
- Ship Weight: 2.0 lb (0.9 Kg)
- Single Unit: 1.2 lb (0.5 Kg)

Regulatory:
- Designed in compliance with FCC Class A- Part 15, CE, UL, CSA & TUV standards
- IEEE 802.3z, A/B; 1000BASE-T/SX/LX/ZX
- Class 1 lasers conform to US 21 CFR(J), EN 60825-1, UL 1950 and IEC-825

Warranty:
- Three (3) Years, parts and labor

The pages that follow provide ordering information for Canary's 'Basic Connections' family of Media Conversion products:

- *Gigabit Ethernet Copper-to-Fiber Converters*
  BC-GTXX series

- *Gigabit Ethernet Fiber-to-Fiber Converters*
  BC-GSXLX1

- *Fast Ethernet Copper-to-Fiber Converters*
  BC-TFXX series

RWTÜV USA INC.
Subsidiary of **RWTÜV** Systems GMBH Germany
ISO 9001 : 2000
Canary Communications is an ISO 9001 : 2000 registered company.

CANARY
communications

Canary Communications, Inc.
18655 Madrone Pkwy, #100
Morgan Hill, CA 95037

Tel: (408)465-2277
Fax: (408)465-2278
Web: www.canarycom.com

Basic Connections! Media Conversion Family

BC-GTXX1 – *Gigabit Ethernet Copper-to-Fiber Converters*

BC-GSXLX1 – *Gigabit Ethernet Fiber-to-Fiber Converters*

BC-TFXX – *Fast Ethernet Copper-to-Fiber Converters*

Illustrated: Basic Connection! Media Conversion Family

Gigabit Ethernet Copper-to-Fiber Converters

- 1000BASE-T Autonegotiation for Full-duplex and Half-duplex operation with Flow-Control and;

- Switch selectable, Fiber-Port Autonegotiation for common, end-to-end link awareness and Flow-Control, or for blind connection to Gigabit fiber ports on older switches

- Internal Auto-sensing, MDI / MDI-X crossover switch for Network Interface Card or Switch connections

- Transparent to Flow-Control commands such as PAUSE

- A full array of status / diagnostic LEDs

The *Basic Connections!* family of Gigabit Ethernet copper-to-fiber converters combine existing 100 meter Category-5(E) UTP and Fiber optic segments to deliver Gigabit data across the network. They provide very economical connections in the enterprise or campus, and can be used to take advantage of low-cost Gigabit capable switches.

Gigabit Ethernet Fiber-to-Fiber Converters

- Simple plug and go installation

- Transparent to Flow-Control commands such as PAUSE

- A full array of status / diagnostic LEDs

Basic Connections! Gigabit Ethernet Fiber-to-Fiber converters provide very economical conversion between low-cost multi-mode fiber optic segments and single-mode Fiber segments. They are ideal for data intensive backbones in the enterprise or across the campus where cost is paramount.

Standard Gigabit multi-mode ports provide minimum transmission distances of 220+ meters over 62.5/125 ηm fiber or 500+ meters over 50.0/125 ηm fiber. Standard Gigabit models with single-mode ports provide a transmission distance of 10 kilometers over 9.0/125 ηm single-mode fiber.

CANARY
communications

Basic Connections! Media Conversion Family

BC-GTXX1 – *Gigabit Ethernet Copper-to-Fiber Converters*

BC-GSXLX1 – *Gigabit Ethernet Fiber-to-Fiber Converters*

BC-TFXX – *Fast Ethernet Copper-to-Fiber Converters*

Fast Ethernet Copper-to-Fiber Converters

Basic Connections! Fast Ethernet UTP-to-Fiber converters interconnect twisted-pair and fiber optic segments to extend Fast Ethernet links. They are ideal for connecting user desktops with low-cost work-group switches or for small office/home office switch-to-switch links.
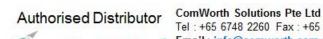
Standard multi-mode converters provide transmission distances of 2000 meters over 62.5/125 ηm fiber.

Standard single-mode models provide transmission distances ranging from 20 to 40 kilometers over 9.0 ηm single-mode fiber.

- Switch for Hard-Setting Full-Duplex or 100BASE-TX Auto-negotiation for Full and Half-duplex operation

- Push-button MDI / MDI-X crossover switch for proper Network Interface Card or Switch connections

- Optional forty kilometer rated Fiber connectors

- A full array of diagnostic LEDs

Ordering Information

Model Numbers	Media Types	Optical Specifications						Connector Type	Wavelengths (ηm)	Transmit Distance
		Min. Tx PWR	Max. Tx PWR	Rx Sensitivity	Min. PWR Budget	Max.PWR Budget	Max. Input PWR			
Specifications in Blue are for multi-mode fiber connectors, those in Black are for single-mode fiber connectors										
Gigabit Ethernet Copper-to-Fiber Converters (1000BASE-T-SX/LX)										
BC-GTSX1	UTP / MM	-9.5 dBm	-4.0 dBm	-17.0 dBm	7.5 dB	13.0 dB	0.0 dBm	SC	850 _m	220/550 m
BC-GTLX1	UTP / SM	-10.0 dBm	-3.0 dBm	-20.0 dBm	10.0 dB	17.0 dB	-3.0 dBm	SC	1310 _m	10 Km
Gigabit Ethernet Fiber-to-Fiber Converters (1000BASE-SX-LX)										
BC-GSXLX1	MM / SM	-10.0 dBm	-3.0 dBm	-20.0 dBm	10.0 dB	17.0 dB	-3.0 dBm	SC/SC	1310 _m	550m / 10 Km
Fast Ethernet Copper-to-Fiber Converters (100BASE-T/FX)										
BC-TFM1	UTP / MM	-20.0 dBm	-14.0 dBm	-31.0 dBm	11.0 dB	17.0 dB	-8.0 dBm	SC	1310 _m	2000 m
BC-TFM2	UTP / MM	-20.0 dBm	-14.0 dBm	-31.0 dBm	11.0 dB	17.0 dB	-8.0 dBm	ST	1310 _m	2000 m
BC-TFS1	UTP / SM	-15.0 Bm	-8.0 dBm	-34.0 dBm	19.0 dB	26.0 dB	-7.0 dBm	SC	1310 _m	20 Km
BC-TFS2	UTP / SM	-15.0 dBm	-8.0 dBm	-34.0 dBm	19.0 dB	26.0 dB	-7.0 dBm	ST	1310 _m	20 Km
BC-TFS1-L4	UTP / SM	-5.0 dBm	0.0 dBm	-35.0 dBm	30.0 dB	35.0 dB	0.0 dBm	SC	1310 _m	40 Km

NOTE: BASIC CONNECTIONS! standalone converters are compatible with card modules for Canary's CCM-1600 and CCN-2000 / CCN-0400 Chassis models.
Please refer to the CCM-1600 and CCN-20000 / CCN-0400 Data Sheets s for more information.