

HTB-1100VFG Series

Fast Ethernet 10/100Base-TX to 100Base-FX Converter

Support Both Fiber and TP Link Aware
Support Voltage Supervisor



Features:

- ◆ **HTB-1100VFGC** : One 100Base-TX (RJ-45/STP) Interface,
One 100Base-FX (FO-SC) Multi-mode Interface
- ◆ **HTB-1100VFGT** : One 100Base-TX (RJ-45/STP) Interface,
One 100Base-FX (FO-ST) Multi-mode Interface
- ◆ **HTB-1100VFGMR** : One 100Base-TX (RJ-45/STP) Interface,
One 100Base-FX (FO-MTRJ) Multi-mode Interface
- ◆ **HTB-VFCGC (SM-xx)** : One 100Base-TX (RJ-45/STP) Interface,
One 100Base-FX (FO-SC) Single-mode Interface
- ◆ All Converters comply to IEEE802.3 (10Base-T) and 802.3u (100Base-TX & 100Base-FX)
- ◆ 10/100Mbps Auto Negotiation
- ◆ Plug-and-Play Installation
- ◆ Store and Forward Switching
- ◆ Support Auto-Crossover MDI/MDIX
- ◆ **Support Link Aware**
- ◆ **Support Voltage Supervisor**
- ◆ LEDs Indication:

Power	Lit when Power is ON
FDX	Lit when TP works at Full Duplex Mode, Blink when Collision
TX 100	Lit when TP works at 100Mbps
TX Link/Act	Lit when TP Link is UP, Blink when Traffic
FX 100	Lit when Fiber works at 100Mbps
FX Link/ACT	Lit when Fiber Link is UP, Blink when Traffic

HTB-1100VFG Series Converter is designed to meet the needs for massive optical fiber network deployment. This converter able to extend a legacy copper based network up to 100Km through a single-mode optical fiber communication.

HTB-1100VFG Series adapts the emerging switching technology, built-in Switching ASIC has turned HTB-1100VFG Series function just like a 2 ports switch instead of a traditional converter. Users can enjoy all of the switch benefits such like traffic segmentation, frame checking and error filtering. In addition, unique Fiber Link Alarm function allows user to diagnose and maintain their network more efficiently.

HTB-1100VFG Series is fully complaint with IEEE 802.3 and 802.3u standards. The installation and operation procedures of the HTB-1100VFG Series are simple and straightforward. Operation status can be monitored real time through a set of Diagnostic LEDs located in the front panel.

Specifications

Standards:

- ◆ IEEE 802.3 10Base-T
- ◆ IEEE 802.3u 100Base-TX/FX

Media:

- ◆ 10Base-T EIA/TIA-568 Cat 3, 4, 5; 10M
- ◆ 100Base-TX EIA/TIA-568 Cat 5; 100M
- ◆ 100Base-FX 50/125, 62.5/125 or 100/140 μ m,
Multimode up to 2Km
8.3/125, 8.7/125, 9/215 or 10/125 μ m,
Singlemode up to 40Km

Interface:

- ◆ 10/100Base-T RJ45 Connector
- ◆ 100Base-FX SC Connector
(ST/MTRJ Connector is optional)

Date Transfer Rate

- ◆ 200Mbps at FULL Duplex Mode

Switching Mechanism:

- ◆ Store and Forward

MAC Table

- ◆ 1K Entries

Forward & Filter Rate (64Bytes Frame)

- ◆ 10M, 14,880pkts/sec
- ◆ 100M, 148,800pkts/sec

MDI/MDIX Auto-Crossover

Fiber Link Alarm

Diagnostic LEDs:

- ◆ PWR, FDX, TX 100, TX Link/ACT
FX 100, FX Link/ACT

DIP Switch (Real Panel):

- ◆ Pin 1 Off/On TP Auto-Negotiation Enable/Disable
- ◆ Pin 2 Off/On TP 100M/10M
- ◆ Pin 3 Off/On TP Half / Full Duplex
- ◆ Pin 4 Off/On FX Link Alarm Disable/Enable

Power Adaptor:

- ◆ DC 5V, 1.6A

Dimensions & Weight:

- ◆ 71 x 97 x 26 mm (W x D x H)
- ◆ Weight: 0.6Kg (Shipping Weight)

Temperature:

- ◆ Operating: 0°C ~ +50°C
- ◆ Storage: -20°C ~ +60°C

Humidity:

- ◆ 5% ~ 90% non-condensing

Emission:

- ◆ Electrical: UL, CAS
- ◆ EMI: FCC Class A, CE

Fiber Optic Information

	HTB-1100VFGC	HTB-1100VFT	HTB-1100VFGC (SM-25)	HTB-1100VFGC (SM-40)	HTB-1100VFGC (SM-60)
Connector Type	SC	ST	SC	SC	SC
Fiber Type	Multimode	Multimode	Singlemode	Singlemode	Singlemode
Wavelength	1310nm	1310nm	1310nm	1310nm	1310nm
Typical Distance	2Km	2Km	≥ 25Km	40Km	60Km
Min TX PWR	-19.0dBm	-19.0dBm	-15.0dBm	-5.0dBm	-4.0dBm
Max TX PWR	-14.0dBm	-14.0dBm	-8.0dBm	0dBm	2.00dBm
Sensitivity	-30.0dBm	-30.0dBm	-34.0dBm	-34.0dBm	-36.0dBm
Link Budget	11.0dBm	11.0dBm	19.0dBm	29.0dBm	32.0dBm

Order Information:

- HTB-1100VFGC : 100Base-TX to 100Base-FX Converter (Multi-mode / SC) (+)
 HTB-1100VFGT : 100Base-TX to 100Base-FX Converter (Multi-mode / ST) (+)
 HTB-1100VFC(SM-xx) : 100Base-TX to 100Base-FX Converter (Single-mode / SC) (+)
 where xx stands for distance, we have 25Km, 40Km, 60Km, 80Km, 100Km)

(+): Each Unit includes one external power supply and one operating manual.



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