

COMOSS FEUSB Series Network Adapter

Data Sheet

Layer 2, 100Base-FX for PC(s) or Laptop(s) to POF (Plastic Optical Fiber) Network Adapter. Provides High-Speed POF for Computers with USB Port(s)



Overview

The FEUSB Series is USB2.0 to 100Base-FX POF (Plastic Optical Fiber) to 100M Fast Ethernet controller is a high performance and highly integrated ASIC which enables low cost, small form factor, and simple plug-and-play Fast Ethernet network connection capability for desktops, laptop PC's, Ultra-Mobile PC's, and any embedded system using a standard USB port.

LED indicators are used to display power status of converter, link/ active status of FX port and link/ active status of POF port. This product is really plug-and-play and requires no additional settings. The FEUSB Series are fully compatible for IEEE 802.3u Fast Ethernet data communication standard.

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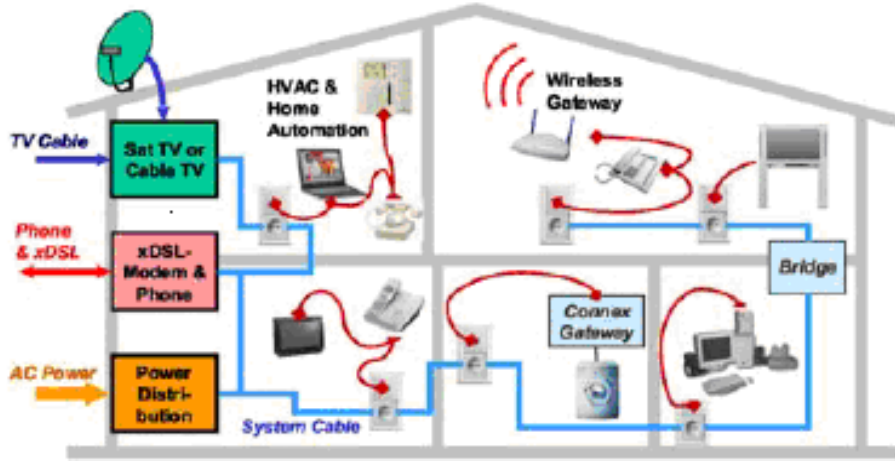
Key Features

- (1) Integrates on-chip USB 2.0 transceiver and SIE compliant to USB Spec 1.1 and 2.0.
- (2) Supports USB Full and High Speed modes with Bus-Power or Self-Power capability.
- (3) High performance packet transfer rate over USB bus using proprietary burst transfer mechanism (submitted for US patent application).
- (4) Supports USB to Ethernet bridging or vice versa in hardware.
- (5) Support 100Mbps full duplex operation.
- (6) Supports power down mode.
- (7) Supports operation under Link Down Power Saving mode.
- (8) Supports repeater mode.
- (9) Network Status LEDs.
- (10) Power management capabilities for ACPI 1.0 compliant systems.
- (11) Wake On LAN support.
- (12) Display converter status by LED indicators.
- (13) Plug-and-play and easy installation.
- (14) Low power consumption and Low cost.

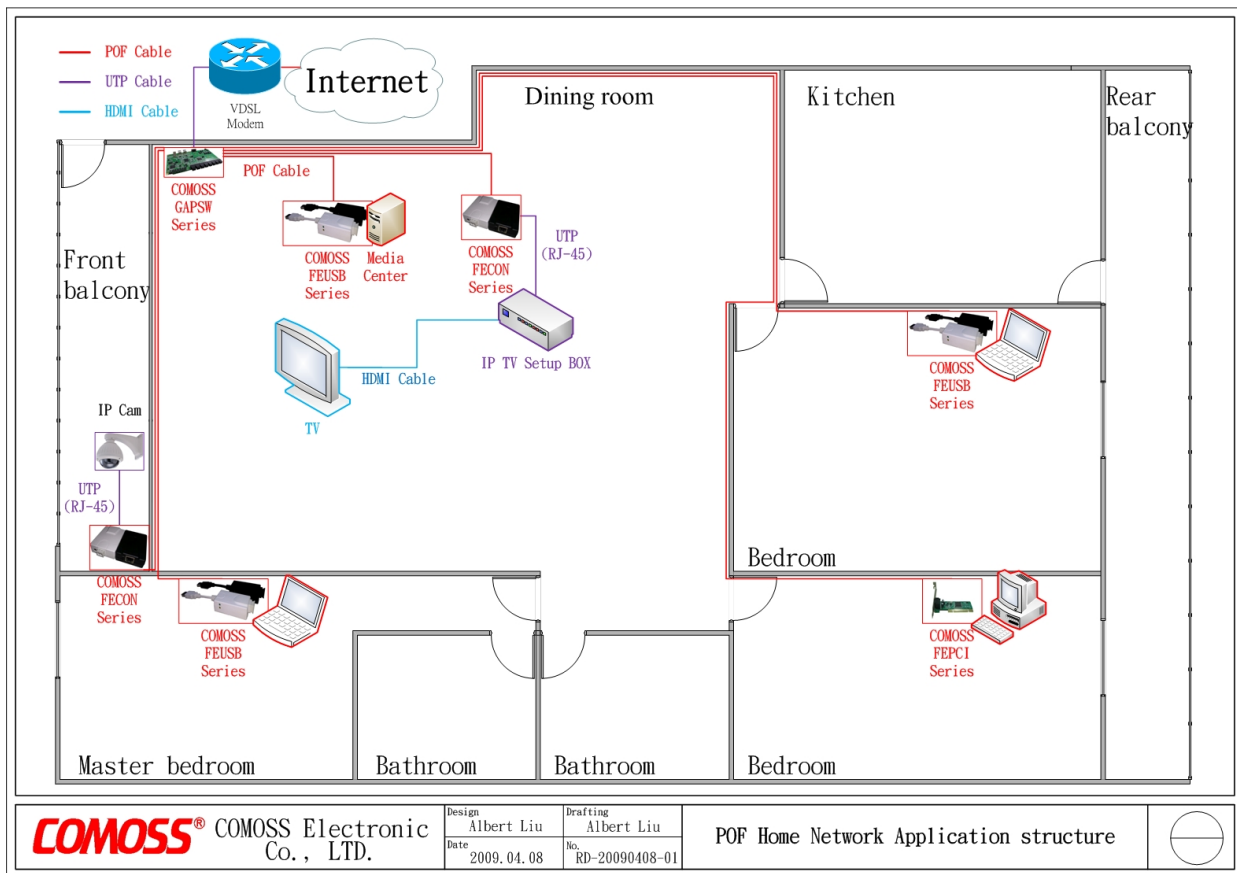
Specification

Parameter	Optical Port	Electrical Port
Standard compatibility	1.IEEE 802.3 Fast Ethernet 2.IEEE 802.3 Full Duplex Flow Control	1. Integrates on-chip USB 2.0 transceiver and SIE compliant to USB Spec 1.1 and 2.0
Data Rate	100Mbps	480Mbps
Transmitting Length	50M at POF interface	
Interface connector	OPTOLOCK® or SMI POF transceiver	USB A type or B type connector (Optional)
Equipped cable	OPTOLOCK® or SMI POF patch cord (Optional)	USB B type to A type cable (Optional)
LED Indication	Power status, FX link/ active status.	
Operating Environment	Temperature: 0~50 °C Humidity: 10%~90%	
Storage Environment	Temperature: -40~70 °C Humidity: 10%~90%(Non-condensing)	
Dimensions (W x D x H)	70 x 35 x 18 mm	
Total Weight	100g	
EMC Certification	1. FCC certification: Part 15 Subpart B 2. CE certification: EN55022/ 55024/ 61000-3-2/ 61000-3-3	

Application



POF Network



LED Indications



	LED	Color	Status	Function
LED1	PWR	Green	ON	When connection & power are both good.
LED2	FX ACT	Yellow	Blink	When any FX packet is transmitting.

System Requirement

- (1) Please make sure your PC or Laptop and device support USB slot.
- (2) There is no special hardware requirement such as CPU speed, memory size and chipsets.

Order Information

FEUSB - O X X
(1) (2) (3)

(1) Converter Type :

- S: SMI POF Interface.
- O: OPTOLOCK[®] POF Interface.

(2) POF Cable O.D. :

- 1 : One SMI transceiver no POF O.D. Require
- 2 : One 2.2mm OPTOLOCK[®] Transceiver (Black Color)
- 3 : One 1.5mm OPTOLOCK[®] Transceiver (White Color).

(3) USB Port :

- 0 : With USB A type pig tail.
- 1 : B type USB connector.
- 2 : B type USB connector with B type USB cable.

P.S. OPTOCLOCK[®] is a registered by FIRECOMMS Ltd.