

COMOSS GAPCI Series Network Adapter

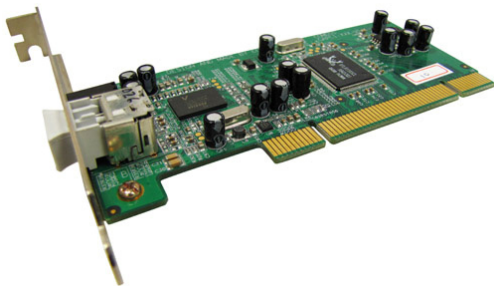
Data Sheet

**Layer 2, 1000Base-X for
PCs to POF(Plastic Optical
Fiber) Network Adapter.
Provides Giga-bit POF for
Desktop Computers with
PCI Slot(s)**

Overview

The GAPCI Series is 32bits PCI to 1000Base-X POF (Plastic Optical Fiber) converter. It fully compatible for IEEE 802.3 Fast Ethernet data communication standard in POF application. This product is easy plug-and-play and requires no additional settings. This solution is designed for use in a variety of applications including workstation NICs, PC motherboards, and other systems utilizing a PCI bus that require network connectivity to Ethernet.

The GAPCI Series supports several power down states. To achieve the most efficient power management possible, ACPI power management support is provide for modem operating systems that are capable of OSPM (Operating System directed Power Management. PCI Message Signaled Interrupt (MSI) is also supported.



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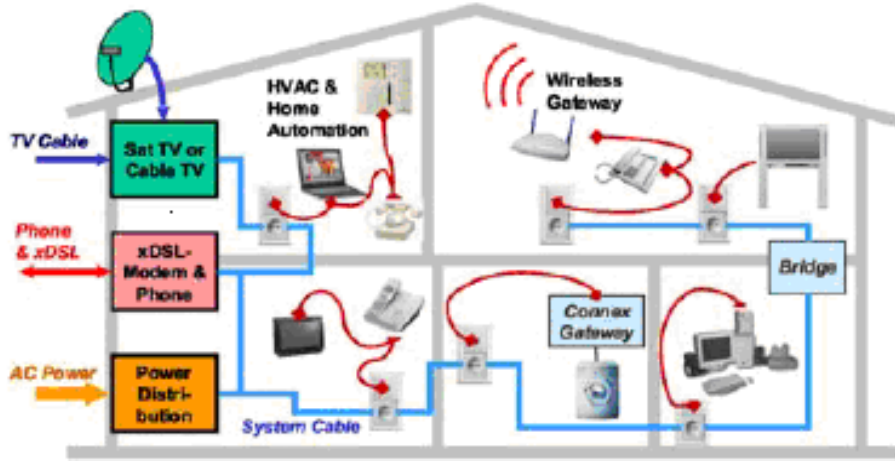
Key Features

- (1) Fully support 1000Mbps full duplex Ethernet Media Access Controller.
- (2) Supports PCI rev.2.3, 32-bit, 33/66MHz.
- (3) Microsoft NDIS5 Checksum Offload (IP, TCP, UDP) and largesend offload support.
- (4) Supports Full Duplex flow control (IEEE 802.3x)
- (5) Fully compliant with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab.
- (6) Supports IEEE 802.1P Layer 2 Priority Encoding.
- (7) Supports Power down/link down power saving.
- (8) Supports PCI Message Signaled Interrupt (MSI)

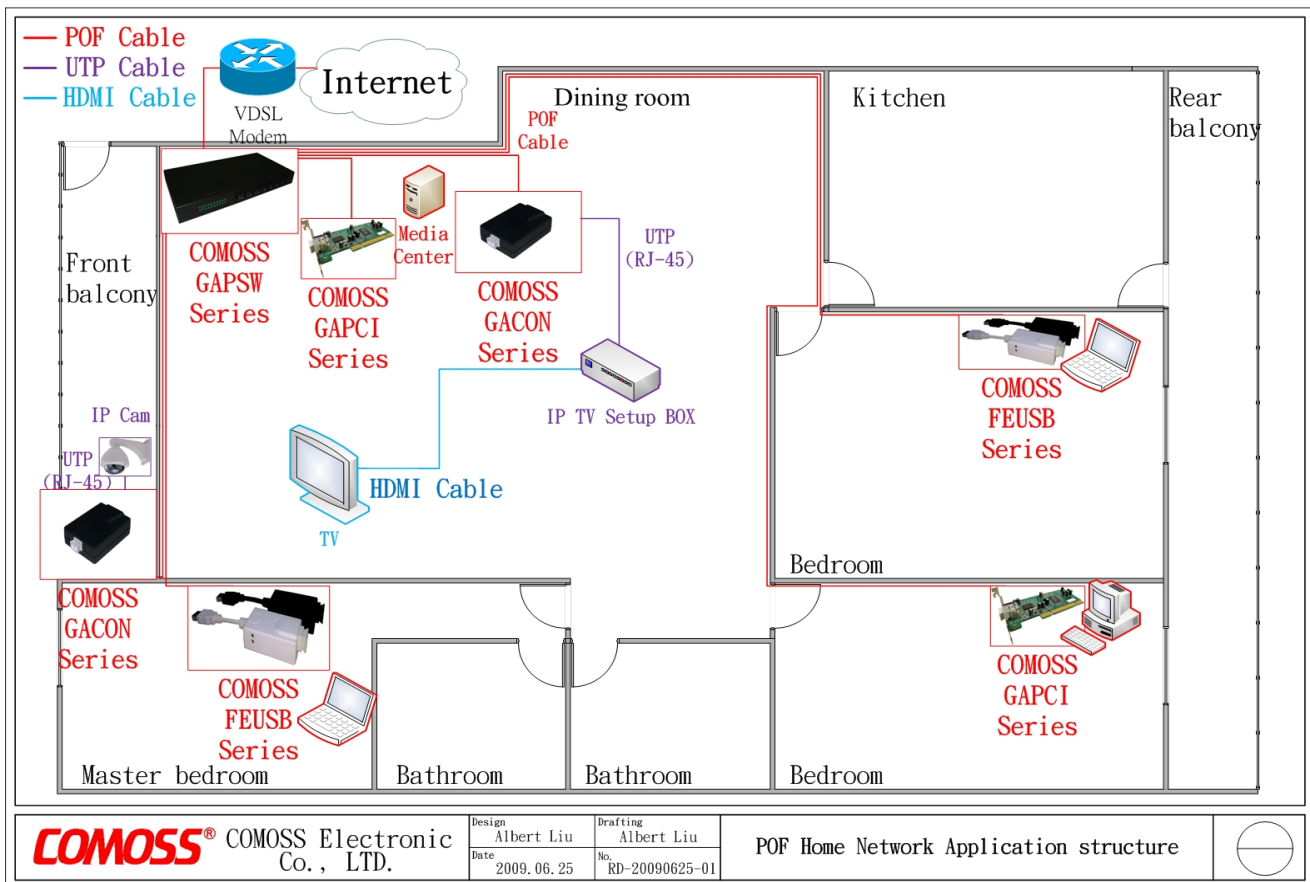
Specification

Parameter	Optical Port	Electrical Port
Standard compatibility	1000Base-X	1. PCI Local Bus Revision 2.3 2. Supports PCI Message Signaled Interrupt.
Data Rate	1000Mbps	TBD
Transmitting Length	1. 3M at SI-POF interface. 2. 30M at GI-POF interface.	
Interface connector	1. Optolock [®] POF transceiver 2. SMI POF transceiver	PCI Slot
Equipped cable	Optolup [®] Optolock [®] or SMI POF patch cord	None.
LED Indication	PHY status, and PCI operating 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)	121 x 73 x 16 mm	
Total Weight	TBD	
EMC Certification	FCC certification: Part 15 Subpart B 2. CE certification: EN55022/ 55024/ 61000-3-2/ 61000-3-3	

Application



POF Network



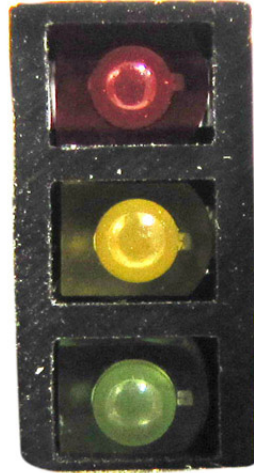
COMOSS® COMOSS Electronic Co., LTD.

Design	Albert Liu	Drafting	Albert Liu
Date	2009.06.25	No.	RD-20090625-01

POF Home Network Application structure



LED Indications



LED	Color	Status	Function
PWR	Red	ON	When input power is detected.
ACT	Yellow	ON	If connection of POF is good.
LINK	Green	Blink	When any TX packet is transmitting.

System Requirement

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

Order Information

GAPCI - X X X
(1) (2) (3)

(1) Converter Type :

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

(3) Accessory :

- 0 : Without Bracket.
- 1 : With Standard Bracket

(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).

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