



Focuscom



FC2001-T

1GE+CATV XPON ONU

Product Overview

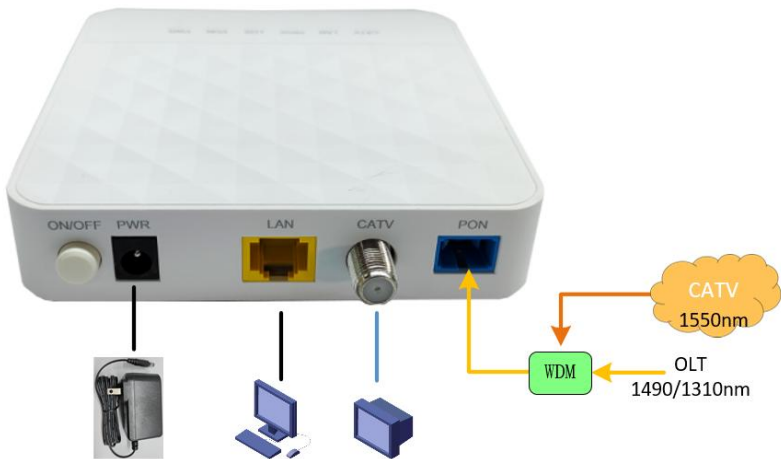
The FC2001-T is an XPON optical terminal access device designed for fiber-to-the-home (FTTH) applications. It supports ultra-broadband access via XPON upstream technology and provides users with routing, gigabit Ethernet, and client-side CATV interface functions. The device features an XPON port for upstream connectivity and offers one GE Ethernet port and one CATV port for downstream user connection.

Product Highlight

- 1 * G/EPON interface: SC/UPC/APC interface, complying with GPON and EPON standards
- 1 * Ethernet interface: 10 MBPS / 100 MBPS / 1000 MBPS, RJ - 45, IEEE802.3-2005 standard
- 1 * CATV, C/N: ≥43dB, C/CTB: ≥55dB, C/CSO≥ 55dB, MER≥32dB, BER≤1*10E-6

Solution Display

The PON system usually consists of the OLT at the office side, the ONU and the ODN at the user side, and adopts a point-to-multipoint network structure. The ODN consists of single-mode optical fibers and passive optical devices such as optical splitters and optical connectors. It provides the optical transmission medium for the physical connection between the OLT and ONU. Implement FTTX service deployment application.

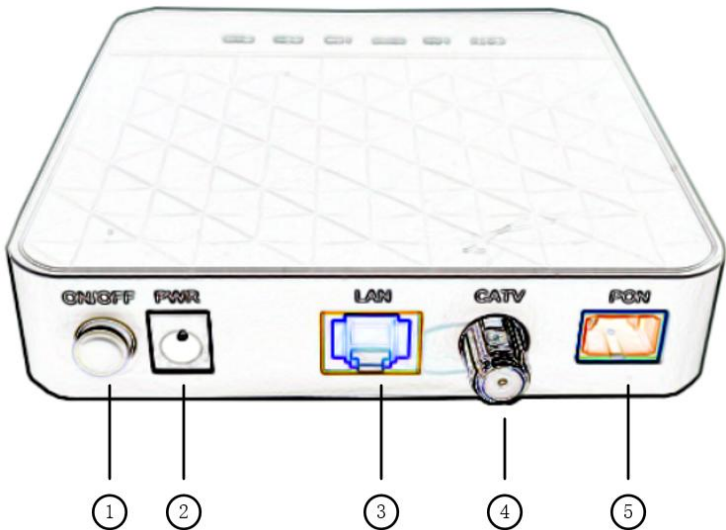


Hardware Specification

Hardware Specifications	Description
Interface	1*GE + 1*CATV +G/EPON SC/APC (or SC/UPC)
LED	POWER+PON/LOS+NET+LAN + CATV
SRAM & Flash	SRAM: Embedded SDRAM; Flash: 8MB
Button	POWER + RST
Power Supply	12V/1.0A DC power input 100V ~ 240V AC/50Hz ~ 60Hz external power adapter
Power Consumption	<8W

Environment Temperature	Operating Temperature: -5℃ ~45℃ Storage Temperature: -20℃ ~70℃
Environment humidity	Relative Humidity: 5%~95% non-condensing
Environment Friendly	RoHs, CE, CCC
Weight	0.1kg
Size (W*D*H) mm	112*112*27.5mm
Module type	Class B+ SC/UPC
wavelength	UP 1310nm,Down 1490nm
TX Optical power	0.5~4dbm
RX Optical sensitivity	-28dBm
Transmission distance	0~20km
Transmission rate	EPON: Upstream 1.25Gbps/Downstream 1.25Gbps GPON: Upstream 1.25Gbps/Downstream 2.5Gbps
Interface	Description
LAN Interface type	1*RJ45(2x10/100/1000Mbps)
CATV	British F-head

Panel view



Interface		Description
1	POWER Button	ON/OFF
2	POWER	12V/1A, power input interface
3	LAN	RJ-45 10/100/1000 Base-T Ethernet Interface

4	CATV_RF	British F-head
5	PON	GPON interface

LEDs Operating Status

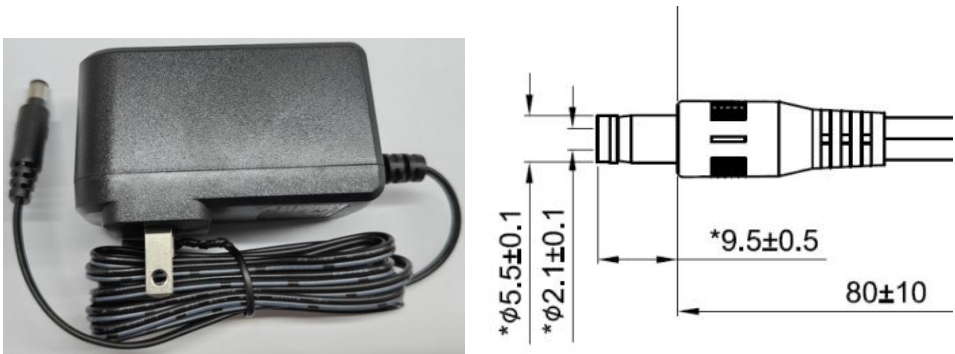
The operation status of FC2001-T can be determined by using the front LED. The panel LED indicator will display the status of each interface. The meaning of LED is shown in the following table.

LED	Color	Indicates
PWR	Green/Solid	Normal
	OFF	No power
LOS	Red	Optical link is NOT OK (rang: out of -8~-29 dbm)
	OFF	ONU registration begins
PON	Green	ONU registration OK
	OFF	Optical link is NOT OK (rang: out of -8~-29 dbm)
LAN	Green/Flash	device connected
		Active or Link data receive and transfer (Green/flash)
	OFF	device not connected link down
CATV	Green/Flash	The catv module of the device works properly
	OFF	The device is not started or the catv module is abnormal

Plug-In Units

The device uses a standard 5.5*2.1*9.5mm Non tuning fork DC head interface power adapter. Select an appropriate adapter for power supply according to device energy consumption.

The below shows the electrical characteristics of the adapter:



Characteristic	Power adapter
AC: INPUT	AC: 100 ~ 240V; 50/60Hz
DC: OUTPUT	DC: 12V/1A
Rated Power	12W

CATV

Attributes		Description
CATV	Remote Control	ON/OFF
	Optical AGC	-10 ~ +2dBm
	Output Level	76dBuV
	RF Bandwidth	47 - 1000 MHz
	In-band Flatness	±1.25dB
	Output Return Loss	≥ 12dB
	CATV System Parameters	C/N: ≥ 43dB, C/CTB: ≥ 55dB, C/CSO ≥ 55dB, MER ≥ 32dB, BER ≤ 1*10E-6

Software Specification

Attributes	Description
XPON	ITU-T G.984.1-4; IEEE 802.3ah 15 TCONTs /256GEM ports 8 Egress queues per TCONT at least VLAN/ priority/VEIP gem mapping mode SN/LOID/SN+ Password authentication Performance monitoring: eth/Gem port Dying gasp
Ethernet Port	Ethernet port-based VLAN tags and tag removal VLAN transparent and aggregation MAC address learning 10/100/1000Mbps Auto negotiation
L2 Feature	MAC learning (SVL)/aging Support max frame length to 1518 bytes VLAN tagging for untagged packets Support VLAN 1-4094 VLAN transparent / translation
Multicast	IGMP v2 (RFC 2236) and IGMP v3 (RFC 3376) IGMP snooping
Management	OMCI/WEB UI SSH Management with CLI commands Dual-system software backup and rollback

Purchase Info

Model Number	Description
FC2001-T	1GE+CATV+G/EPON, Accessories: Power Adapter, RJ45 cable;



SHENZHEN FOCUSCOM TECHNOLOGIES CO.,LTD

Room 1205, Skyworth Digital Building, Songbai Road,

Baoan District, Shenzhen, 518108 China

Tel: 0755-86366755

Fax: 0755-26061156

Website: www.focuscom.com.cn

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