



Focuscom



FX3124X

1*2.5G+3GE+POTS+WiFi6 AX3000

<https://en.focuscom.com.cn/>

Product Overview

The FX3124X is a XGPON optical terminal access device (AX3000Mbps) that is highly integrated with dual-frequency Wi-Fi6. It is the end-product of optical fiber for operator, which supports ultra-bandwidth access through XGPON upstream technology, and provides users with basic WIFI functions, routing, VOIP, and gigabit Ethernet functions. The FX3124X upstream network ports are XGPON ports. The downstream user ports include four GE electrical ports, one USB port, one VOIP port, and AX3000 WiFi6 WLAN port.

Product Highlight

- 1 * XGPON interface: SC/UPC (or SC/APC) interface, XGPON standard
- 1 * 2.5G+3*GE, 1000 MBPS, RJ - 45, IEEE802.3-2005 standard
- 1 * VOIP interface: in accordance with G. 711 a/u, G. 729 a/b, G. 722 standard
- 1 * Standard USB 3.0 interface
- Dual-band WIFI6 AX3000 (2 ×2 MIMO (2.4G&5G))

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.



Product Specification

Hardware Specifications	Description
Port	1*2.5G+3GE+1VOIP+1USB+WIFI6+XGPON

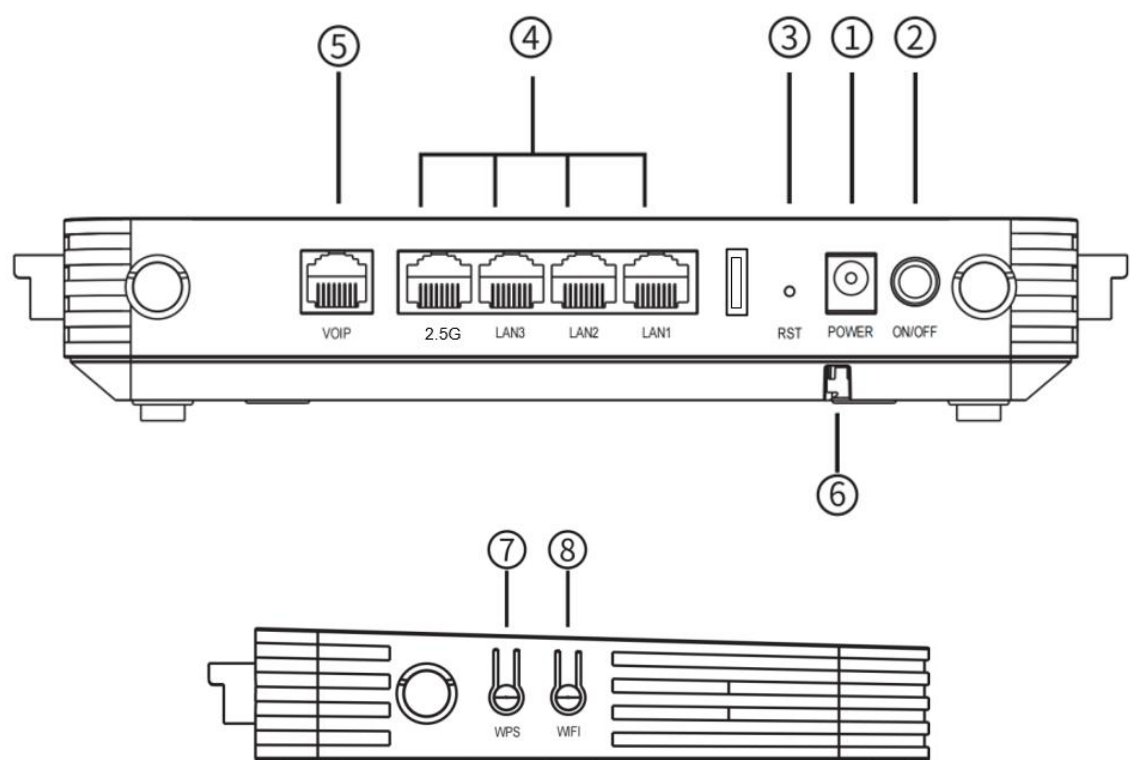
LED	POWER+PON/LOS +INTERNET +LAN+VOIP + WiFi + WPS+USB
Button	POWER + RST +WIFI+WPS
Flash & Memory	Flash: 128MB NAND; Memory: 512MB DDR4
Power Supply	12V/1.5A
Power Consumption	≤18W
Environment Standard	Operating Temperature: -5°C~45°C Storage Temperature: -20°C~70°C Relative Humidity: 5%~95% non-condensing
Weight	0.35KG
Size	190mm*135mm*33mm (L*W*H)
Module type	Class B+, SC/UPC
wavelength	UP 1270nm, Down 1577nm
TX Optical power	4~9dbm
RX Optical sensitivity	-28dBm
Transmission distance	0~20km
Transmission rate	XGPON: Upstream 2.5Gbps/Downstream 10Gbps
LAN Interface type	Lan1-lan3 : RJ45 (10/100/1000Mbps) LAN4 : RJ45 (100/1000/25000Mbps)
VOIP	RJ11
USB	USB3.0
WIFI	Dual-band WIFI6 AX3000 (2 ×2 MIMO (2.4G&5G))

WiFi6 (AX3000)

Attributes		Description
WiFi6 (AX3000)	WiFi Protocol	2.4GHz supports 802.11b/g/n/ax 5GHz supports 802.11a/n/ac/ax
	Transmit Power	2.4G 100Mw; 5G /200mW
	Antenna Gain	5dBi
	Antenna	Dual-antenna MIMO (2*2) (2.4G&5G)
	WLAN Penetrate	One reinforced concrete wall or two ordinary brick walls (non-reinforced concrete)
	WLAN Access Capability	64 /SSID

	Channel	2.4GHz (channel 1-13) 5GHZ (channel 36-161)
	WPS	WLAN terminal devices with WPS Push Button function establish connection within 2 minutes
	WLAN Security Function	WPA-PSK、WPA2-PSK、 WPA3、 WPA-PSK/WPA2-PSK AES、 AES+ TKIP
	Air Speed	574 Mbps (2.4GHz), 2402 Mbps (5GHz)
	Multicast	WMM (Wi-Fi Multi Media)

Panel view



Interface		Description
1	POWER	12V/2A, power input interface
2	ON/OFF	Power switch button
3	RST	Reset the ONT
4	LAN1/LAN2/LAN3/LAN4	RJ-45 10/100/1000/2500 Base-T Ethernet Interface
5	VOIP	RJ-11 FXS Interface
6	PON	XGPON interface
7	WPS	WPS switch button
8	WIFI	WIFI switch button

LEDs Operating Status

The operation status of FX3124X can be determined by using the front LED. The panel LED indicator will display the status of

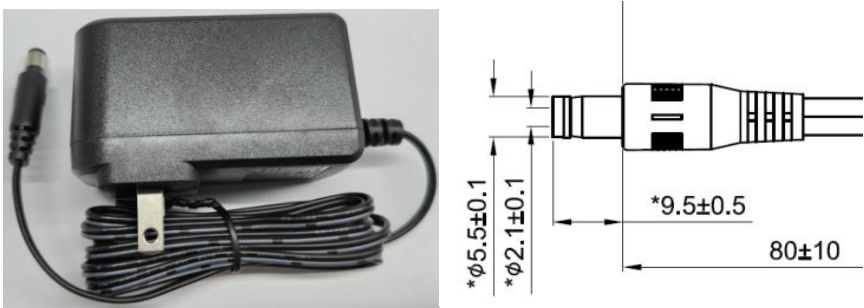
each interface. The meaning of LED is shown in the following table.

LED	Color	Indicates
PWR	Green/Solid	Normal
	OFF	No power
LOS	Red	Optical link is NOT OK (rang: out of -8~-29 dbm)
	Green/Flash	Optical link is OK (rang: in -8~-29 dbm)
	Green/solid	Registered successful and active
Internet	Green/solid	The wan interface of the internet is configured
	OFF	The Internet WAN interface is not configured or the Internet WAN interface is configured but does not take effect.
LAN1/ LAN2/ LAN3/ LAN4	Green/Flash	device connected
		Active or Link data receive and transfer (Green/flash)
	Off	device not connected
		link down
VOIP	Green	successfully registered to softswitch
	OFF	Not be registered to softswitch
USB	Green	Connected and data receive and transfer
	OFF	No power/error/USB is not connected/USB disable
WIFI	Green/Flash	The terminal is connected to transmit data wirelessly
	OFF	No power/WIFI disable
WPS	Green	WPS started working
	OFF	WPS is not working

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/1.5A
Rated Power	18W

Software Specification

Attributes	Description
XGPON Feature	ITU-T G.987 ITU-T G.988/TR255/TR156 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 MAC address learning 10/100/1000/2500Mbps Auto negotiation
VoIP Port	Call waiting, In-conditional Call Forward, Call Forward if Busy, Call Forward if no reply and Three-party calls. G711A/G711U/G729/G722 SDP protocol (RFC 2327 and RFC 4566) T.30/T.38/G.711 fax mode
L2 Feature	MAC learning (SVL)/aging Support max frame length to 1518 bytes VLAN tagging for untagged packets Support VLAN 1-4094
L3 Feature	PPPoE/Static IP/DHCP NAT/NAPT Port forwarding ALG, UPnP, DDNS IPv4/IPv6 dual stack, DS-Lite Static, and Default Routes Multiple services on one WAN port
QoS	Support 8 Queues with Strict Priority Ethernet port rate limitation 802.1 priority SP/WRP Service flow classification
Multicast	IGMP v2 (RFC 2236) and IGMP v3 (RFC 3376) IGMP snooping and IGMP Proxy MLD v1
Management	OMCI/WEB UI/TR069 Telnet/SSH Management with CLI commands Dual-system software backup and rollback

Purchase Info

Model Number	Description
FX3124X	1*2.5GE+3GE+1VOIP+1USB+WIFI6+XGPON, Accessories: Power Adapter, RJ45 cable, RJ11 cable;



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