Overview

Huawei OptiXstar F1001-AC is an enterprise primary gateway. It supports Ethernet GE or XG-PON upstream transmission and implements all-optical gigabit access for enterprises. It provides downlink PoF ports (through advanced fiber with power (AFwP)) and works with Wi-Fi ONUs to implement Wi-Fi wireless access. In addition, it provides downlink PON ports and works with ONUs to implement wired or wireless access of terminals. F1001-AC is suitable for small enterprises, supermarkets, kindergartens, and community hospitals.

Table 1 shows the Quick Specification.

Model	OptiXstar F1001-AC
Dimensions (W x D x H)	442 mm x 245 mm x 43.6 mm
Operating ambient temperature	-10 °C - +40 °C
Operating environment humidity	5 % RH to 95 % RH, non-condensing
AC power supply	100 ~ 240 V AC, 50/60 Hz
NNI	● 4 x GE (WAN/LAN multiplexing) ● 1 x XG-PON
UNI	4 x GE (WAN/LAN1 multiplexing) + 8 x GPON (XC/UPC, PoF) + 16 x GPON (SC/UPC)
Maximum input current	2 A
Static power consumption	9 W
Maximum power consumption	14 W NOTE: The maximum output power of the PoF cable is 135 W.

Figure 1 shows the appearance of OptiXstar F1001-AC.

OptiXstar F1001-AC Datasheet

Highlights

Simplified Deployment

The built-in advanced fiber with power (AFwP) power adapter supplies power to the downstream ONU through the PoF port. The remote ONU is not required to obtain power locally. The F600C-30-1GH and F600P-30-1GH support plug-and-play and automatic networking.

Ultimate Experience

● 128K NAT session forwarding capability, maximum of 300 devices connected.

● Supports Wi-Fi roaming, the roaming handover delay is 50 ms.

● Supports 6 Gbit/s VXLAN, provides high-speed storage and access channels.

● The security-based 200 Mbit/s IPSec VPN access is implemented. The hardware encryption engine ensures tunnel performance and data security

Product Details

Port Parameters

Interface Classification	Interface Name	Interface Parameter
Network-side port	GE port	● Interface type: RJ-45 ● Supports auto-sensing of the 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s interface rate ● Compliant with IEEE802.3
	XG-PON port	● Interface type: SC/UPC ● Class N1/N2a ● Receiver sensitivity: -28 dBm ● Overload optical power: –8 dBm ● Transmission rate: 2.488 Gbit/s in the uplink and 9.953 Gbit/s in the downlink
User-side port	XC/UPC port	● PoF port, connected to the optical/electrical composite cable ● Transmission rate: downlink 2.488 Gbit/s; uplink 1.244 Gbit/s
	SC/UPC port	Transmission rate: downlink 2.488 Gbit/s; uplink 1.244 Gbit/s
LAN port	GE port	● Interface type: RJ-45 ● Supports auto-sensing of the 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s interface rate ● Compliant with IEEE802.3

Product Functions

Intelligent O&M	● OMCI/Web UI/TR069 management ● Call emulation and internal/external line test ● PPPoE/DHCP emulation test

Layer 3 features	● PPPoE Client/Static IP/DHCP Server/DHCP Client ● IPv6/DHCPv6 Server/DHCPv6 Client ● DDNS/DNS ● Static route ● NAT/NAPT/static one-to-one address translation ● DMZ/Port Mapping/Port Tigger ● ALG/UPnP/ARP
Networking protection	● Type B single-homing protection ● Type B dual-homing protection
Wi-Fi management	● Automatic Wi-Fi Channel Selection Under OLT Management of the Same Gateway ● Wi-Fi roaming is supported. The Wi-Fi roaming handover delay within the master ONU is 100 ms (802.11k/802.11v) **
VPN	● L2TP VPN ● VXLAN tunnel ● IPSec encryption
QoS	● Ethernet port rate limit ● 802.1p priority ● SP/WRR/SP+WRR ● Broadcast packet rate limit
Layer 2 management	● VLAN Management ● MAC Bridge Management ● Loop detection ● Supports LLDP-MED. ● DHCP Option82 ● PITP ● BPDU transparent transmission
Multicast	● IGMP v2/v3 snooping ● IGMP proxy ● MLDv1/MLDv2 snooping ● Multicast emulation ● GPON interworking multicast
Security	● SPI Firewall ● IPv4/IPv6 firewall ● Anti-DoS attack ● MAC address/IP address/URL address filtering ● Static MAC address binding ● Local Portal authentication ● Authentication-free trustlist
	*: The user terminal must support 802.11k/802.11v. * *: The F1001-AC does not support Wi-Fi, but the Wi-Fi can be configured for the downstream ONU. That is, the Wi-Fi parameters are configured on the F1001-AC. The Wi-Fi configuration automatically overwrites the downstream ONU.

Get More Information

Do you have any question about the OptiXstar F1001-AC?

Contact us now via info@hi-network.com.

Specification

OptiXstar F1001-AC Specification	
Dimensions (W x D x H)	442 mm x 245 mm x 43.6 mm
Weight	Approx. 3.0 kg
Operating ambient temperature	-10 °C - +40 °C
Operating environment humidity	5 % RH to 95 % RH, non-condensing
AC power supply	100 ~ 240 V AC, 50/60 Hz
NNI	● 4 x GE (WAN/LAN multiplexing) ● 1 x XG-PON
UNI	4 x GE (WAN/LAN1 multiplexing) + 8 x GPON (XC/UPC, PoF) + 16 x GPON (SC/UPC)
Maximum input current	2 A
Static power consumption	9 W
Maximum power consumption	14 W 　NOTE: The maximum output power of the PoF cable is 135 W.
Degree of protection	IP20
GE port	● Interface type: RJ-45 ● Supports auto-sensing of the 10 Mbit/s, 100 Mbit/s, or 1000 Mbit/s interface rate ● Compliant with IEEE802.3
XG-PON port	● Interface type: SC/UPC ● Class N1/N2a ● Receiver sensitivity: -28 dBm ● Overload optical power: –8 dBm ● Transmission rate: 2.488 Gbit/s in the uplink and 9.953 Gbit/s in the downlink
XC/UPC port	● PoF port, connected to the optical/electrical composite cable ● Transmission rate: downlink 2.488 Gbit/s; uplink 1.244 Gbit/s
SC/UPC port	Transmission rate: downlink 2.488 Gbit/s; uplink 1.244 Gbit/s

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