

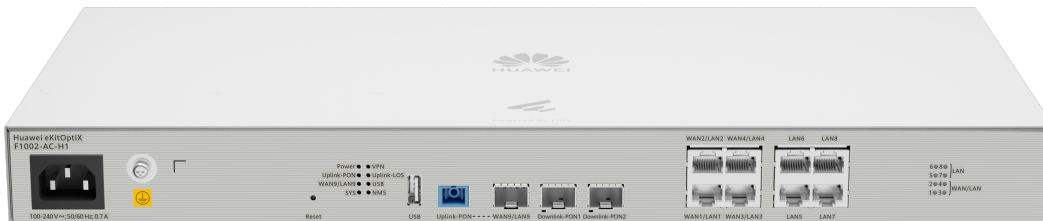
F1002-AC-H1 Datasheet

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Overview

Huawei eKitOptiX F1002-AC-H1 is an enterprise optical gateway. The device provides optical port and Ethernet ports in the uplink direction, and optical ports, Ethernet ports, and USB port in the downlink direction.

- Automatic networking with optical APs, plug-and-play, supports Wi-Fi roaming, the roaming handover delay is 50 ms.
- Connect 256 ONU/Optical APs, maximum of 1000 devices connected.
- The security-based 1 Gbit/s IPSec VPN access is implemented. The hardware encryption engine ensures tunnel performance and data security.



NOTE

- The schematic diagrams in this document may differ from the actual product.
- The optical gateway does not provide Wi-Fi itself, but can configure Wi-Fi for downstream optical APs. That is, you can configure Wi-Fi parameters on the optical gateway. These Wi-Fi parameters are then automatically synchronized to downstream optical APs.
- Automatic Wi-Fi channel selection under the same optical gateway
- Downstream optical APs Wi-Fi roaming(User terminals must support 802.11k/802.11v)

Hardware Specifications

Specification	Parameters
Dimensions (H x W x D)	442mm × 220mm × 43.6mm
NNI	• 1 × XGS-PON/XG-PON(BOB) or 1 × 10 GE(SFP)(WAN/LAN multiplexing) • 4 × GE (WAN/LAN multiplexing)
UNI	• 2 × XGS-PON&GPON Combo/GPON(SFP) + 8 × GE + 1 × USB3.0* NOTE • *: plug-and-play USB port reserved for users.

Specification	Parameters
	• WAN1/LAN1~WAN4/LAN4 are WAN/LAN multiplexing. • LAN5 to LAN8 share 1 Gbit/s bandwidth. • 1 × 10GE(SFP)(WAN/LAN multiplexing)
Rated power supply	AC: 100 – 240V AC, 50/60 Hz, 0.7 A
Static power consumption	14.71 W
Maximum power consumption	24.62 W
Operating temperature	-10°C to +55°C
Operating humidity	5% RH – 95% RH, non-condensing
Weight (excluding adapter)	About 2.25kg
Protection rating	IP20
Surge protection	AC power supply: 6 kV in common mode and 6 kV in differential mode GE: 4 kV in common mode
Heat dissipation	Fan cooling
Installation mode	Desktop, 19-inch cabinet, and network box

Port Parameters

Name	Parameter
Uplink-PON	• Port mode: XGS-PON – Port type: SC/UPC – Standards compliance: ITU-T G.9807.1, Class N1/N2 – Receiver sensitivity: –28 dBm – Overload optical power: –9 dBm – Transmission rate: 9.953 Gbit/s downstream and 9.953 Gbit/s upstream • Port mode: XG-PON – Port type: SC/UPC – Class N1/N2a – Receiver sensitivity: -28dBm – Overload optical power: -8dBm – Transmission rate: 9.953 Gbit/s downstream and 2.488 Gbit/s upstream
WAN9/LAN9	Supports GE and 10GE optical modules
Downlink-PON1–Downlink-PON2	Supports GPON/XGS-PON&GPON Combo optical modules
WAN1/LAN1–WAN4/LAN4 LAN5–LAN8	• RJ-45 port • Standards compliance: IEEE802.3 • 10/100/1000 Mbit/s auto-sensing • Half duplex/full duplex auto-negotiation and configuration • VLAN tagging/tag removal based on Ethernet port
USB	USB 3.0

Product Functions

Feature	Description
Automatic service provisioning	• OMCI/Web UI/TR069 • PPPoE/DHCP simulation
L3 features	• Default/Static/Policy/Service route • VLAN binding • ALG/UPnP/ARP • DDNS/DMZ/DNS/NAPT • PPPoE/Static IP address/DHCP • Port mapping/Port trigger • IPv6
Security	• IPv6/IPv4 firewall • MAC address filtering/IP address filtering • Anti-DoS/anti-ARP attack • Port-level MAC address and IP address binding • Device access control • Local Portal authentication
Multicast	• IGMP v2/v3 snooping • Dynamic controllable multicast • IGMP proxy • MLDv1/MLDv2 snooping
QoS	• Ethernet port rate limitation • 802.1p priority • SP/WRR/SP+WRR
VPN	• L2TP VPN • VXLAN tunnel • IPsec encryption
Layer 2 management	• DHCP Option82 • PITP • BPDU transparent transmission • LLDP

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Huawei Technologies Co., Ltd.

Address: Huawei Industrial Base Bantian,
Longgang Shenzhen 518129 People's
Republic of China

Website: <https://ekit.huawei.com>

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