

Huawei OptiXstar EG8141XR-10 Datasheet 01

Huawei intelligent GPON and Wi-Fi 6 Master FTTR Unit for FTTR all-optical Wi-Fi solution

Overview

The Huawei OptiXstar EG8141XR-10 is a GPON and Wi-Fi 6 Master FTTR Unit for FTTR all-optical Wi-Fi solution. It uses the GPON and Wi-Fi 6 technologies to implement ultra-broadband access, high performance and wide coverage for users. The high forwarding performance ensures the user experience of voice and data services, and provides customers with an ideal all-optical access solution and future-oriented service support capability.

- Ultra gigabit to room
- Seamless roaming throughout the house
- Remote management, maintenance app and user app management



Device Parameters

Dimensions	240mm x 151mm x 40mm(Without foot pads)	Power adapter input	100V to 240 V AC, 50/60 Hz
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Weight	<700 g	System power supply	12 V DC, 1.5 A
Installation mode	Desktop placement	Maximum power consumption	16.6 W
Memory	256MB Flash,512MB RAM	NNI	GPON
Operating temperature	0°C to 40°C	UNI	4xGE+1x POTS+2.4GHz&5GHz Wi-Fi 6+1xoptical port
Operating humidity	5% RH to 95% RH (non-condensing)	Optical connector	NNI: SC/APC UNI: SC/UPC

Interface Parameters

GPON	Wi-Fi
<ul style="list-style-type: none"> Class B+ Receiver sensitivity: -27 dBm Overload optical power: -8 dBm Wavelengths: US 1310 nm, DS 1490 nm Wavelength blocking filter (WBF) Flexible mapping between GEM Port and TCONT Authentication:SN/Password/SN+Password Upstream and downstream FEC SR-DBA and NSR-DBA Upstream and downstream rate:1.244 Gbit/s upstream, 2.488 Gbit/s downstream (GPON) 	<ul style="list-style-type: none"> IEEE 802.11 b/g/n/ax (2.4GHz) IEEE 802.11 a/n/ac/ax (5GHz) 2×2 MIMO (2.4GHz&5GHz) WMM(Wi-Fi Multi Media) Multiple SSIDs WPS Air interface rate: 574 Mbps (2.4GHz),2402 Mbps (5GHz)
	Ethernet port
	<ul style="list-style-type: none"> Ethernet port-based VLAN tags and tag removal 1:1 VLAN, N:1 VLAN, or VLAN transparent transmission QinQ VLAN Limitation on the number of learned MAC addresses MAC address learning Supporting 10 Mbit/s, 100 Mbit/s and 1000 Mbit/s auto-adaptation
POTS port	Downstream opticalport
<ul style="list-style-type: none"> Maximum REN: 4 G.711A/μ, G.729a/b, and G.722 encoding/decoding T.30/T.38/G.711 fax mode DTMF Emergency calls (with the SIP protocol) 	<ul style="list-style-type: none"> Ultra-Gigabit optical port Plug-and-play of the Slave FTTR Unit for FTTR all-optical Wi-Fi solution

Product Function


Smart interconnection	Smart O&M	Multicast	Layer 3 features
<ul style="list-style-type: none"> Smart Wi-Fi coverage SIP/H.248 auto-negotiation Any port any service 	<ul style="list-style-type: none"> IPTV video quality diagnosis(VMOS&eMDI) Rogue ONT detection and isolation from the 	<ul style="list-style-type: none"> IGMP v2/v3 snooping IGMP v2/v3 proxy MLD v1/v2 snooping 	<ul style="list-style-type: none"> PPPoE/Static IP/DHCP NAT/NAPT Port forwarding

<ul style="list-style-type: none">Parental control	<p>OLT</p> <ul style="list-style-type: none">WLAN simulationPPPoE/DHCP simulation testing		<ul style="list-style-type: none">ALG, UPnPDDNS/DNS server/DNS clientIPv6/IPv4 dual stack, DS-Lite and IPv6 SPIStatic/Default routesMultiple services on one WAN port
Security	Common O&M	QoS	
<ul style="list-style-type: none">SPI firewallAnti-DOS attackFiltering based on MAC/IP/URL addresses	<ul style="list-style-type: none">OMCI/Web UI/TR069Variable-length OMCI messagesDual-system software backup and rollback	<ul style="list-style-type: none">Ethernet port rate limitation802.1p prioritySP/WRR/SP+WRRBroadcast packet rate limitation	Power saving <ul style="list-style-type: none">Indicator power savingCOC V7.1
Home Network		Home network management	
<ul style="list-style-type: none">As the Master FTTR Unit for FTTR all-optical Wi-Fi solutionFibers without electromagnetic interference and low latencyHome Network visualized managementUser-defined bandwidth allocationWi-Fi channel optimization within the home networkWi-Fi roaming (802.11k/802.11v) within the home network *		<p>Supported the following functions with NCE:</p> <ul style="list-style-type: none">Remote management and maintenanceLocal Installation Assistant APP** ManagementUser mobile app** management:<ul style="list-style-type: none">Installation guideHome network topology visualizationOne-click diagnosisWi-Fi ConfigurationWi-Fi timing switchParental Controls	
<p>*: Supported when the STA supports 802.11k or 802.11v.</p> <p>**:. Huawei provides the basic mobile APP version for carriers. Carriers can develop customized features based on the SDK provided by Huawei.</p>			

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