

Huawei OptiXstar S890H Datasheet

XGS-PON mini ONU

Product Overview

Huawei OptiXstar S890H is an XGS-PON mini ONU. It is installed near an indoor Wi-Fi 6 AP to implement fiber to the AP and provide XGS-PON access to the AP, meeting wireless backhaul requirements.



Product Highlights

- High bandwidth, supporting XGS-PON upstream transmission
- Ultra-small size, light weight, and installation and power supply with cable
- High security, supporting secure boot
- High reliability with type B dual-homing service protection.
- Dynamic energy saving

Technical Specifications

Dimensions	105mm x 30mm x 30mm	Maximum power consumption	6.7 W
Weight	155 g	Operating temperature	–25°C to +40°C
NNI	XGS-PON BOB	Operating humidity	5%RH to 95%RH (non-condensing)
UNI	1 x 10GE (100M/GE/2.5GE/5GE/10GE auto-sensing) Works with the optical/electrical composite cable solution to provide PoE++ power for Wi-Fi 6 APs.	Degree of protection	IP20
System power supply	Photoelectric composite cable connector POF, 44–57 V		

Port Parameters

Network-side port: XGS-PON BOB port <ul style="list-style-type: none"> Port type: SC/UPC Standard compliance: ITU-T G.9807 Receiver sensitivity: ≤ -28dBm Overload optical power: ≥ -9dBm Transmit optical power: 4dBm to 9dBm Extinction ratio: ≥ 6dB Maximum transmission rate: upstream 9.953 Gbit/s, downstream 9.953 Gbit/s Transmit wavelength range: 1260–1280 nm; center wavelength: 1270 nm Receive wavelength range: 1575–1580 nm; center wavelength: 1577 nm Type B single-homing Type B dual-homing 	User-side port: 10GE port 100M/GE/2.5GE/5GE/10GE auto-sensing
---	---

Function List


Smart O&M <ul style="list-style-type: none"> Variable-length OMCI messages Rogue ONT detection and isolation from the OLT PPPoE/DHCP simulation testing 	Multicast <ul style="list-style-type: none"> IGMP v2/v3 snooping MLD v1/v2 snooping Fast leave VLAN tag translation, transparent transmission, and removal for downstream multicast packets 	QoS <ul style="list-style-type: none"> Ethernet port rate limitation 802.1p priority SP/WRR/SP+WRR Broadcast packet rate limitation Flow mapping based on the
---	--	---

	<ul style="list-style-type: none"> IGMP/MLD protocol packet rate limitation 	VLAN ID, port ID, or/and 802.1p
Common O&M <ul style="list-style-type: none"> OMCI Dual-system software backup and rollback 802.1ag Ethernet OAM Optical link measurement and diagnosis 	Security <ul style="list-style-type: none"> MAC address filtering 	

Copyright © Huawei Technologies Co., Ltd. 2023. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

Trademarks and Permissions

 HUAWEI and other Huawei trademarks are trademarks of Huawei Technologies Co., Ltd.

All other trademarks and trade names mentioned in this document are the property of their respective holders.

Notice

The purchased products, services and features are stipulated by the contract made between Huawei and the customer. All or part of the products, services and features described in this document may not be within the purchase scope or the usage scope. Unless otherwise specified in the contract, all statements, information, and recommendations in this document are provided "AS IS" without warranties, guarantees or representations of any kind, either express or implied.

The information in this document is subject to change without notice. Every effort has been made in the preparation of this document to ensure accuracy of the contents, but all statements, information, and recommendations in this document do not constitute a warranty of any kind, express or implied.

Huawei Technologies Co., Ltd.

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

Website: www.huawei.com