

Product Overview

The Konnex GSFP-ST-02 smart ONU with modularized SFP oriented for the security monitoring and intelligent wireless. Is compatible with EPON and GPON networks: complied with the international standard ITU-T G.9844/988 and IEEE802.3ah, PRC Communication Industry Standard GB/T33845-2017 and YD/T 1475-2006, and China Telecom EPON/GPON Technical Requirement CTC. Standing out with great interoperability and operability, GSFP-ST-02 can interconnect well with OLTs of mainstream manufacturers in the industry.



GSFP-ST-02

Product Characteristics

- **Excellent Access Capacity**

GPON: supports the PON transmission rate of downlink 2.5Gbp/ uplink 1.25Gbps. Connected with OLTs, it can realize 1:128 splitting ratio. The covering radius of the network can reach to 20km.

EPON: supports the PON transmission rate of downlink 1.25Gbp/ uplink 1.25Gbps. Connected with OLTs, it can realize 1:64 splitting ratio. The covering radius of the network can reach to 20km.

- **Secure Service Carrying Ability**

For ensuring the secure service carrying ability of ONU, Konnex has developed techniques including VLAN, STP, port isolation, ACL, QoS, security filtering and Broadcast Storm Control.

- **High Service Control Capability**

GSFP-ST-02 supports DBA and Rate-Limit. The Konnex GSFP-ST-02 also supports advanced dynamic bandwidth distribution and accurate bandwidth limit, which enables users to share 2.5Gbps (GPON) and 1.25Gbps (EPON) bandwidth resource appropriately. In addition, the QOS function guarantees a reliable service quality and service priority.

- **Rich OMCI Functions**

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GSFP-ST-02 Commercial Gigabit SFU



The Konnex GSFP-ST-02 supports the standard OMCI defined by ITU-T, standard OAM and extended OAM defined by telecom CTC2.1/3.0, including configuration, alarm, performance monitoring, fault isolation and security management, and it also supports private OMCI and OAM.

▪ Complete Interaction Capacity

The Konnex GSFP-ST-02 is complied with the international standard ITU-T G.9844/988 and IEEE802.3ah, PRC Communication Industry Standard GB/T33845-2017 and YD/T 1475-2006, and China Telecom EPON/GPON Technical Requirement CTC. With great interoperability and operability, The Konnex GSFP-ST-02 can interconnect well with OLTs of mainstream manufacturers in the industry to minimize network construction costs. Automatic network switching enables smooth transition from EPON to GPON network.

▪ Advanced Energy-saving Technique

The Konnex GSFP-ST-02 supports the industry-leading “GreenTouch” architecture and “Smart@CHIP” technology to ensure energy saving and environmental protection.

Technical Parameters

Item	Description
UNI	4 GE
PON interface	EPON/GPON self-adaptation GPON: downlink 2.5Gbps/uplink 1.25Gbps EPON: downlink 1.25Gbps/uplink 1.25Gbps Network covering radius: 20km Hi-sensible optical receiver: no more than -28dBm Radiation power: 0.5~5dBm Type of the optical interface: SC/UPC
Standards	ITU-T G.984/G.988, IEEE802.3ah GBT33845-2017, YD/T 1475-2006 IEEE 802.1Q, VLAN
Multicast	IGMP-Snooping CTC defined dynamic multicast MLD-Snooping
QoS	Back pressure flow control (half duplex) IEEE 802.3x flow control (full duplex) Head Of Line (HoL) mechanism

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	IEEE 802.1p, CoS 4 priority queues per port WR, SP and FIFO Rate limit
Reliability	Loop detect Dying-Gasp Type B dual homing protection
Security	Limitation to the MAC addresses on the port Port protection Port storm control
Management	Web, TELNET, TR069, OMCI, OAM Software upgrade through TFTP/WEB/TR069/OLT
Dimensions (WxDxH)	140*105*30mm
Heat dissipation	Supports long-time use (24 hours); The device running hot will not affect its performance or cause it break down.
Environment requirements	Operating environment: 0°C~75°C; 10%~90% non-condensing
	Power supply: SFP feed
	Power consumption: less than 2W

Ordering Information

Model	Description
	STICK GPON ONU Module, standard SFP package, SC/UPC interface

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