

**Specification****HTZ2024X**

XPON ONU 1GE

1 OVERVIEW

- HTZ2024X series single-user ONU is designed for ONU in different FTTH solutions, The carrier-class FTTH application provides data service access.
- HTZ2024X series adopts high-performance and low-consumption chips, and supports CTC V2.0 interconnection and interworking standard of China Telecom. With the help of NGBN View NMS, it can provide subscribers with abundant services, and totally meet the needs of carrier-class FTTH devices.
- HTZ2024X series is designed by ZTE chipset.

2 FUNCTIONAL FEATURE

- Router mode supports PPPoE / DHCP / static IP.
- Support port-based rate limitation and bandwidth control.
- In compliant with ITU-T G.984 Standard.
- Up to 20km transmission Distance.
- Support data encryption, group broadcasting, port VLAN separation, etc.
- Support Dynamic Bandwidth Allocation (DBA).
- Support IPv4 & IPv6.
- Support ONU auto-discovery/Link detection/remote upgrade of software.
- Support VLAN division and user separation to avoid broadcast storm.
- Support power-off alarm function, easy for link problem detection.
- Support broadcasting storm resistance function.
- Specialized design for system breakdown prevention to maintain stable system.
- Support software online upgrading EMS network management, convenient for maintenance.


HARDWARE SPECIFICATION

Item	Parameter
PON Interface	1GE PON optical interface Meet Class B+ standard Upstream 1.244Gbps, downstream 2.488Gbps SC-UPC single-mode fiber(or APC) split ratio 1:128 Transmission distance: 20km
User Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode RJ45 connector 100m distance
Power Interface	12V DC Power supply
PON Optical Parameter	Wavelength: TX 1310nm, RX 1490nm TX Optical Power: 0.5~+5dBm RX Sensitivity: -27dBm Saturation Optical Power: -8dBm Connector Type: SC Optical Fiber: 9/125μm single-mode fiber
Transmission Parameter	Packet Loss Ratio<1*10E-12 latency<1.5ms
Gateway	Router mode supports PPPoE / DHCP/ static IP WAN support Router and Bridge mode WAN support Internet LAN supports DHCP and static IP Support NAT and NAPT
Business Capability	Layer 2 wire speed switching Support VLAN TAG/UNTAG, VLAN conversion Support Port-based speed limitation Support Priority classification Support storm control of broadcast
Management mode	Support ITU-T G.984 OMCI, ONU can be remotely managed by OLT Support Remote management through Telnet or HTTP Local management
Management function	Status monitor, Configuration management, Alarm management, Log management
Physical Features	Shell: Plastic casing External 12V 0.5A AC/DC power supply adapter Power consumption<2W(FD101HC), <2.3W(FD111HC) Item Dimension: 60mm(L) x 54mm(W) x 23mm (H) Item weight: 50g

Item	Parameter
Environmental Specifications	Operating temperature: 0 to 50 °C Storage temperature: -40 to 85 °C Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 10% to 90% (Non-condensing)

4 PANEL LIGHTS INTRODUCTION

LED Indicator	Description
PWR	The device is powered up or down.
LOS	Optical link status.
PON	ONU registered.
LINK/ACT	Link status of Ethernet Interface

5 APPLICATION

- Typical Solution: FTTH, FTTB, PON+EOC
- Typical Business: INTERNET, IP Camera

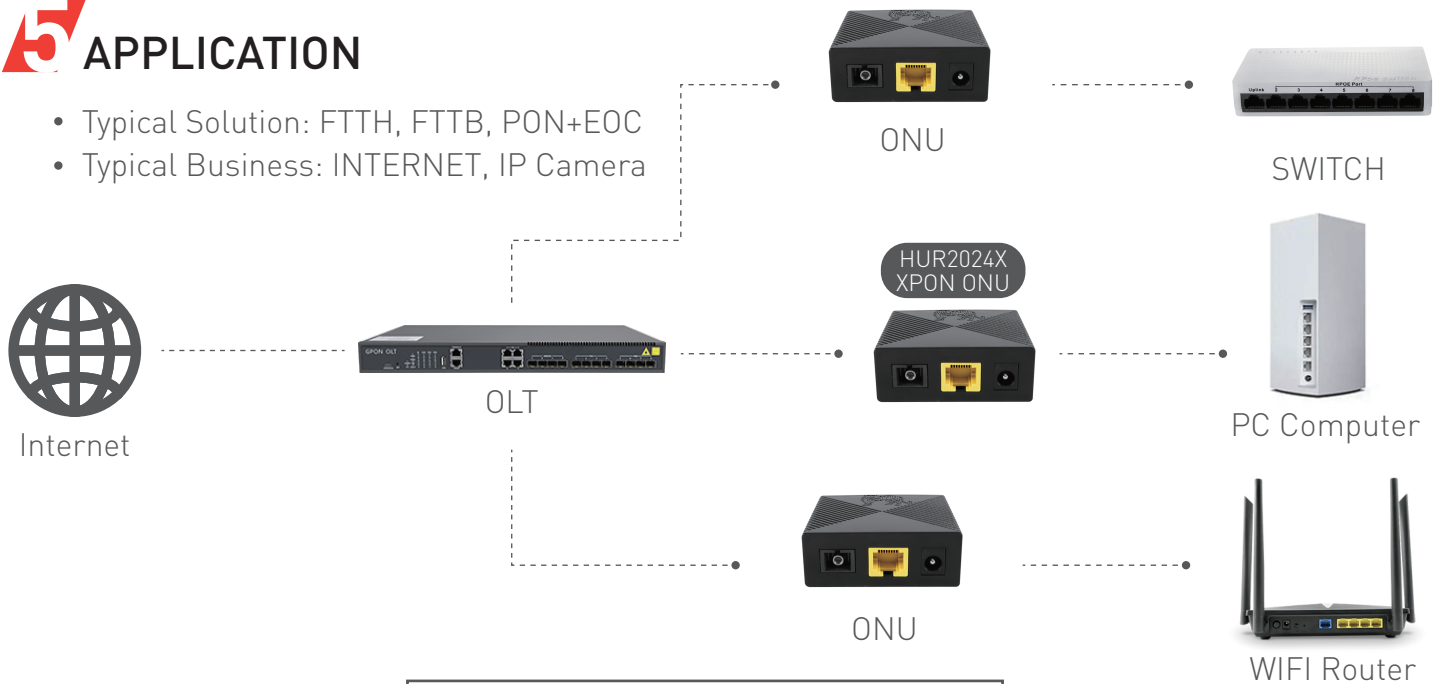


Figure: HUR2024E Application Diagram

6 ORDERING INFORMATION

Product Name	Product Model	Descriptions
SFF Type Mini EPON ONU	HTZ2024X	1*10/100/1000M Ethernet interface, 1GE PON interface, plastic casing, external power supply adapter