

**Specification****HTZ2051X**

XPON ONU

1 OVERVIEW

- HTZ2051X ONU is designed to enable RJ45 ports to have PON network access.
- HTZ2051X 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 FTTB devices.
- HTZ2051X is designed by ZTE chipset.
- Small size, suitable for installation in most switches or media converters.

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 based on SNMP, convenient for maintenance

3 HARDWARE SPECIFICATION

Item		Parameter
Interface	PON Interface	1 XPON optical interface Meet Class B+ standard Upstream 1.244Gbps, downstream 2.488Gbps SC-UPC single-mode fiber split ratio:1:128 Transmission distance 20KM
	User Ethernet Interface	1*10/100/1000M auto-negotiation Full/half duplex mode
	Power Interface	3.3V Power supply
Performance Parameters	PON Optical Parameter	Wavelength: Tx 1310nm, Rx1490nm Tx Optical Power:0.5 ~ +5dBm Rx Sensitivity: -27dBm Saturation Optical Power: -8dBm Connector Type: SC-UPC Optical Fiber: 9/125μm single-mode fiber
	Data 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
Network Management	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
Indicator	LED Indicator	LOS: Optical Link Status PON: ONU Registered
Physical Features	Shell	Zinc alloy
	Power	External 3.3V 2A power supply Power consumption: <2.3W

Item		Parameter
Physical Features	Physical Specifications	Item Dimension: 64.8mm(L) x15.7mm(W)x15.6mm(H) Item weight: 0.04kg
	Environmental Specifications	Operating temperature: -20 to 50 °C Storage temperature: -40 to 85 °C Operating humidity: 10% to 90% (Non-condensing) Storage humidity: 10% to 90% (Non-condensing)

4 APPLICATION

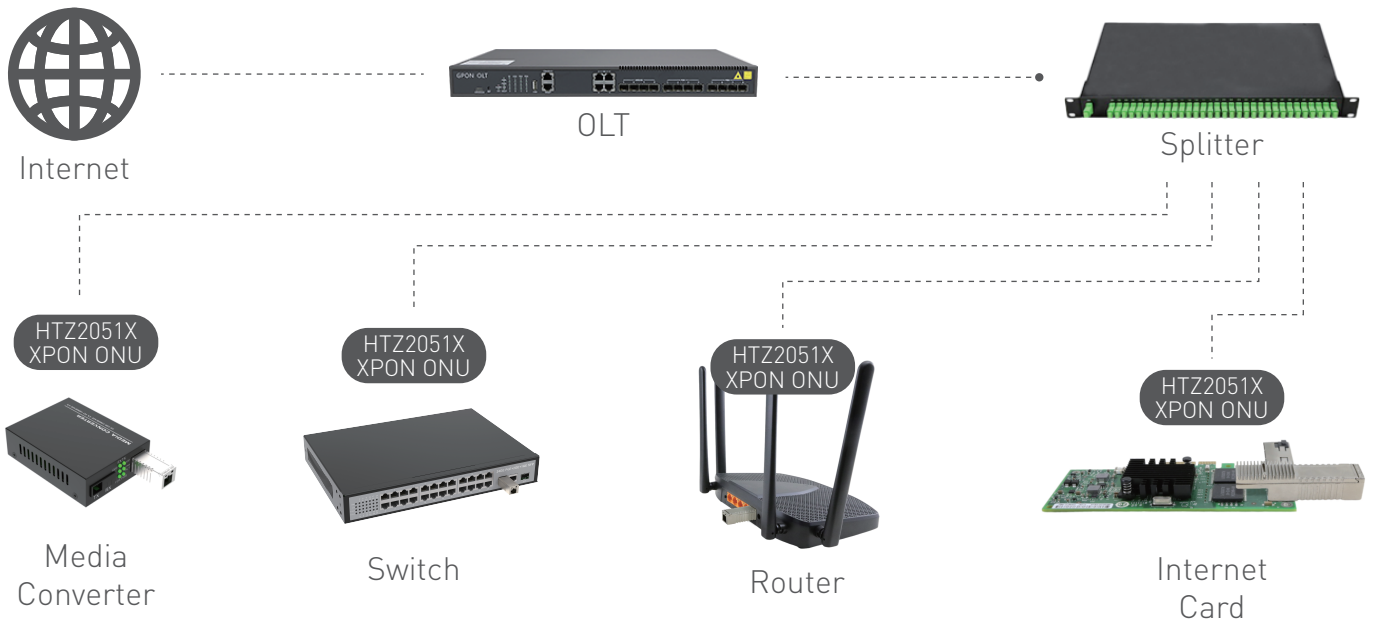
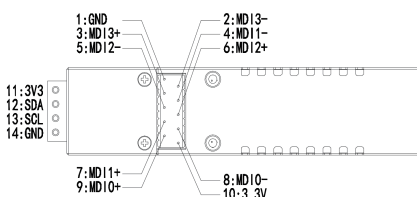
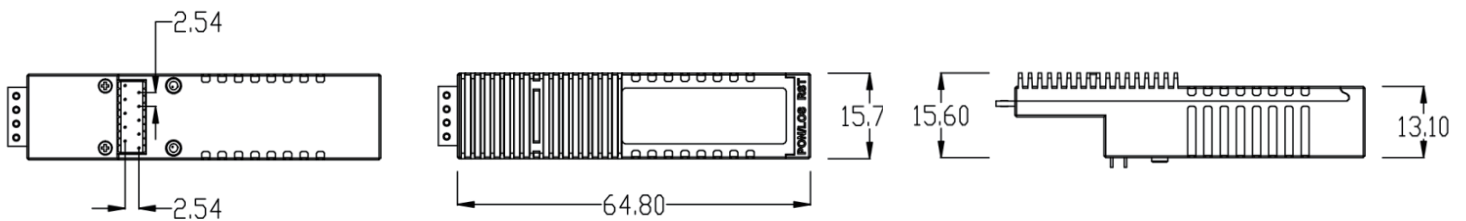


Figure: HTZ2051X Application Diagram

5 PIN SPECIFICATION



PIN	Description	Remark
1、14	GND	
2	Media Dependent Interface	
3	Media Dependent Interface	
4	Media Dependent Interface	
5	Media Dependent Interface	
6	Media Dependent Interface	
7	Media Dependent Interface	
8	Media Dependent Interface	
9	Media Dependent Interface	
10、11	3.3V power supply	