XN10 XPON ONT
（1GE）
Specifications

Version	Date	Author	Reviewers	Remark
V1.0	2017/2/18			Shall not disclose to any third party

Contents

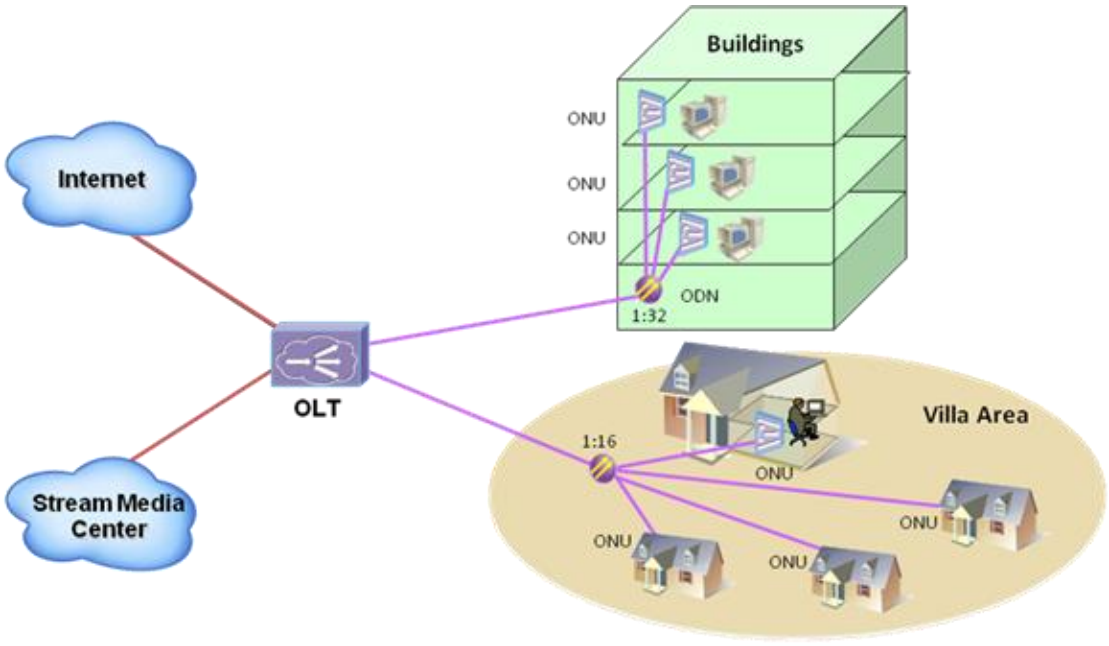
1.OVERVIEW

1.1 Product Positioning

XN10 terminal devices are designed for fulfilling FTTH and triple play service demand of fixed network operators or cable operators. The box is based on the mature Gigabit XPON technology which can connect GPON OLT or EPON OLT automatically. They are highly reliable and easy management and guaranteed QoS. And It is fully compliant with technical regulations such as ITU-T G.984.x.

1.2 Network Mode

XN10 is the FTTH mode terminal equipment which designed for indoor applications. Specific application refers to Picture 1-1



Picture 1-1 XN10 products Network diagram

2.HARDWARE FEATURE

2.1 Interface of device

XN10 product figure as Picture 2-1

Picture 2-1 XN10 product figure

Table 2-1 DescriptionXN10 equipment Interface

Port Type	Function
PON port	Connect PON port with internet by SC type, single mode optical fiber cable
LAN port	RJ45Port connects to local internet, 1 GE port automatically
PWR port (DC12 V)	Connect with power adapter
Power turn on/off	Power turn on/off

2.2 Indicators of device

Table 2-2 XN10 LED statement

Indicators	status	Description
POWER	Light on	ONU power supply normally
	Light off	ONU no power supply
PON	Light on	ONU link active
	Flash	ONU manage to link
	Light off	ONU receiving power rate lower than optical receiver sensitivity
LOS	Blink	Device does not receive optical signals.
	off	Device has receivedoptical signal.
LAN	Light on	network port linked, but no data transmitting

	Flash	network port data pass
	Light off	ONU no power supply or internet cable unlink

3.TECHNICAL SPECIFICATIONS

3.1 Physical structure, Environment and Electrical parameter

Table 3-1 XN10 specification and working environment

Parameter	Nominal
Dimension	110mm x 100mm x 23mm（L×W×H）
Net weight	0.3kg
Typical power consumption	<5W
Noise	None
Cooling style	Naturally cooling
Power supply	12V DC（By external AC/DC adapter）
Installation style	Support PC, wall mount or put inside of information box.
Environment	0~45℃
Atmospheric pressure	70~106Kpa
MTBF	50,000hours
MTTR	30minutes
Parameter	Nominal

3.2 GPON Interface Specifications

Table 3-2 XN10 GPON Interface

Parameter	Nominal
Connector style	SC/UPC (SC/APC optional)
PON quantity	1
Fiber style	Single mode
Wavelength	TX：1310 +/-20nm RX：1490 +/-10nm
PON interface standard	ITU-T G.984.x/ITU-T G.988/IEEE802.3ah
PON interface receiving rate	EPON:1.25Gpbs GPON:2.488Gpbs
PON interface transmitting rate	EPON:1.25Gpbs GPON:1.244Gpbs
Output optical power	Min: 0dBm Max: +5dBm
Opticalreceiver sensitivity	Precede -28dBm
The length of the optical link	Max 20km

3.3 Software function

- Support Multiple VLAN
- Support network storm control.