

FTTH Redefined for you!



GX GROUP



## Earth-4222

Wi-Fi 1200 Mbps

Triple-play Home Gateway Series



### Product Description

Earth 4222 is our most compact Home Gateway WiFi supporting Triple-play services. Format and design is built to fit the market demands in most optimal way, and provides High quality services, supporting WiFi; High bandwidth Gigabit Data, Quality voice services

### Product Features

- » Simple fiber termination
- » Power ON/OFF button, Reset button
- » Advanced 2x2 11N & 11AC WiFi AP, upto 1200 Mbps wireless connectivity
- » Fiber port with 1.244Gbps/2.488Gbps link speed
- » 4x GE + 2x FXS (RJ11 Port for VoIP service)
- » Advances Management capability
- » ONT Broadcast and loop protection

### A perfect fit for every deployment scenario...

Earth 4222 is a part of our EARTH Product family and has been developed in such a way that it can be integrated into various deployment models including single dwelling and multi dwelling scenarios. Using products from the EARTH family, the demarcation point can be extended to any desired location in the home, enabling easy access and installation of services. Its small size makes the product a perfect fit in any environment, be it a living room, metering cabinet or basement.

# PRODUCT FEATURES AND SPECIFICATIONS

## Earth-4222

### General Specifications

- » Dimensions  
210mm(L)×150mm(W)×32mm(H)
- » Weight < 400 g
- » Power supply voltage 12 Vdc ± 5%, 1.5A
- » Power consumption typ. 10.5W
- » Operating temperature 0 - 50 °C
- » Storage temperature -40 - 70 °C

### User interfaces

- 4x Gigabit Ethernet (GE) Ports
- 2x FXS Voice interface/POTS
- 1x GPON Port
- 1x Power connector
- 1x Reset

### Standards

- » Compliant with ITU-T G.984 (G.984.5 support)
- » Compliant with SFF-8472
- » Compliant with IEEE 802.3 Ethernet
- » Compliant with ITU-T G.984.2 Amd1, Class B+
- » Compliant with 802.1 q/p VLANs

### LAN interface(s)

- » Compliant with IEEE 802.3 (u & az) Clause 40 (1000/100/10BASE-T)
- » LED indicators for link and activity

### WiFi - 11n

- » Dual Antenna 2x2 MIMO, 5dBi
- » Throughput > 140Mbps at 40MHz bandwidth
- » Compliant with IEEE 802.11n, 2.4GHz, 20/40MHz bandwidth
- » Receiving sensitivity -68dBm
- » Tx Freq range (mhz) 2412.0-2472.0
- » Rx Freq range (mhz) 2412.0-2472.0

### WiFi - 11AC

- » Compliant with IEEE 802.11a/n/ac, 5Ghz, upto 80 Mhz bandwidth
- » Throughput > 550 Mbps
- » FVM (11ac MCS) : <-32 dB

### Voice FXS

- » Supports SIP, RTP protocol
- » CODEC: G.711, G.729(A/B)
- » Support Call ID / Call waiting / Call forwarding / Call Transfer / 3-way Calling and T.38 FAX
- » Support echo cancellation, compliant with G.165, G.168
- » Support voice activity detection, comfort noise insertion

### ONT Remote WAN Management

- » PPPoE
- » DHCP
- » Static IP
- » Factory restore
- » Protocol port 80 enable/disable

### Management

- » OMCI
- » CLI
- » TR-069 supported
- » Advanced GUI
- » FCC and CCC supported
- » Safety :
  - IEC 6050
  - UL94HB flammability class
- » Laser Safety :
  - IEC EN 60825 class 1
  - FDA 21 CFR 1040 .10 /11 Class 1
- » Emission and Immunity :
  - EN 55022/ CISPR 22:2008, Class B
  - EN 61000
  - EN 550024
- » RoHS/WEEE marking :
  - compliant with 2002/95/EC

### Interoperability

- » TR255 complaint

### Interoperable OLTs








- » Huawei MA5600
- » Huawei MA5608T
- » ISAM 7360 FX
- » Zhone - MXK-F
- » ZTE ZX10 C300
- » Saturn OLT
- » Atlas OLT

## Earth family product models

Model	Type	LAN Interface	Voice/POTS	CATV	WiFi
Earth-4222	GPON WiFi ONT	4x	2x	No	Yes

Equipments design / specification may changes according to the roadmap

### Status LEDs

-  Power
-  Fiber uplink status, PON
-  Telephony status 1-2
-  WiFi status
-  Connectivity status, Internet
-  LAN1-4 status
-  Fiber uplink status, LOS