



Earth-4220RF

Wi-Fi 300 Mbps

Triple-play Home Gateway Series



Product Description

Earth 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 service, Cable TV and IPTV services.

Product Features

- » Simple fiber termination
- » Power ON/OFF button, WPS/WiFi button, Reset button
- » Advanced 2x2 11n WiFi AP, upto 300 Mbps wireless connectivity
- » GPON port with 1.244Gbps/2.488Gbps link speed
- » 4x GE + 1x USB + 1x RF + 2x FXS (RJ11 Port for VoIP service)
- » Advances Management capability
- » ONT Broadcast and loop protection

A perfect fit for every deployment scenario...

Earth 4220RF 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-4220RF

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
with CATV typ. 12.5W
- » Operating temperature 0 - 50 °C
- » Storage temperature -40 - 70 °C

User interfaces

- 1x USB
- 4x Gigabit Ethernet (GE)
- 2x FXS Voice interface/POTS
- 1x CATV output co-axial F-female
- 1x Power connector

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 & z) Clause 40 (1000/100/10BASE-T)
- » LED indicators for link and activity

WiFi

- » 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

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

CATV

- » Optical wavelength 1550 - 1560 nm
- » Optical input range 0 - -18 dBm
- » RF output F connector 75 Ω
- » RF frequency range 47 - 1000 MHz
- » CNR 45 dB
- » Output reflection loss >12 dB
- » RF output level (AGC) 78 dBuV
- » Filtered from WAN interface via internal WDM filter
- » Remote management via OMCI

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-4220RF	GPON WiFi ONT	4x	2x	Yes	Yes