



Genexis Aura PX780-series

All-in one 10G PtP/AE Wi-Fi 7 Residential Gateway



The Aura PX780-series is equipped with a 10G PtP/AE Fiber WAN-interface (SC/APC), 10GE LAN, a FXS-port and delivers Wi-Fi 7 (BE7200), VoIP and EasyMesh™ support for seamless, high-speed connectivity for subscribers with the highest demands.

Powered by OpenWRT-based software IOWRT, the Aura PX780-series ensures carrier-grade performance, a flexible configuration that suits your needs, TR-069/369 remote management, and fail-safe updates.

The Aura PX780-series comes with the VAS Platform called HomeRun which enables ISPs to reduce support costs through automation while enhancing customer satisfaction, and unlocking new revenue with whole home cybersecurity, parental controls, and advanced QoS.

The Aura PX780-series is future-proof; offering scalability, security, and ISP-controlled service innovation.

Key features

- 802.11be (Wi-Fi 7)
- Wi-Fi EasyMesh™
- BE7200: 1.400 Mbps (2.4 GHz) + 5.800 Mbps (5 GHz)
- Multi-Link Operation (MLO)
- 4096-QAM/160 MHz
- Multi-RU puncturing
- High network speeds with 10G PtP/AE WAN and 10GE LAN port
- Easy setup/installation
- EasyTouch pairing with EasyMesh extenders
- Analog telephony support
- Desktop model
- Genexis CloudSight compatible

Sustainability features

- Housing made of 90% recycled plastics
- Designed for easy refurbishment
- Power consumption compliant to EU-CoC-BBE

The base for full home Wi-Fi experience with Wi-Fi EasyMesh™

The Aura is the perfect residential gateway gateway to build and steer a full home EasyMesh™ network, orchestrating multiple extenders.

Thanks to the Aura's award-winning software, subscribers are able to enjoy the outstanding Wi-Fi connectivity throughout their whole home. The Aura's steering capabilities optimize the load balance of the home network. This secures for example that running data streams, like a videocalls, that move throughout the house is allocated to the optimal access point at all times.



Product features and specifications

Genexis Aura PX780-series

General specifications

Dimensions (H x W x D)	217x170x55mm
Weight	618 g
Power supply voltage	2.5 A
Operating temperature	0 - 40 °C
Storage temperature	-25 - 55 °C
Relative humidity	10% - 95%

Power consumption (EU-CoC-BBE)

Aura PX780	10.23 W Idle mode
	13.31 W On mode

WAN interface

Optical Std: 10GBASE-BX10-U (10Gbps)
 Fiber Type: Single-mode, ITU-T G.657.A2
 Connector: SC/APC
 Reach: max 10km
 Wavelength (TX/RX): 1270/1330nm
 Digital Diagnostic Monitoring (DDM)

LAN interface

1x 100/1000/2500/10000 Base-T Ethernet RJ45
 1x 100/1000/2500 Base-T Ethernet RJ45
 2x 100/1000 Base-T Ethernet RJ45

WLAN interface

4x4 MU-MIMO 802.11be 2.4 GHz Wi-Fi
 4x4 MU-MIMO 802.11be 5 GHz Wi-Fi

Voice interface

1x FXS/VoIP interface (RJ11)
 DECT (PX785 only)

USB interface

1x USB 2.0 port

User interfaces

Power connector
 Power switch
 Reset button
 Mode button
 RGB status LED
 End-user web-based GUI

Wireless features

Wi-Fi MultiMedia (WMM)
 Multi-Link Operation (MLO)
 Wi-Fi Protected Setup (WPS)
 Wi-Fi Security (WPA2 and WPA3)
 Wi-Fi EasyMesh™ R6
 DFS and Radar Detection
 Multiple SSID and hidden SSID
 Guest network SSID

Ethernet features

IPv4 and IPv6 dual IP stack
 VLAN (un)tagging, Q-in-Q, QoS
 PPPoE, L2TP, IGMPv3

Gateway features

NAT/PAT, DHCP, DNS
 NTP, RTSP
 Stateful Packet Inspection Firewall (SPIF)
 DMZ, uPnP, Port forwarding

Voice features

SIP based Voice-over-IP
 G.711 / G.722 / G.723 codec
 G.726 / G.729 codec
 DTMF: In-band, RFC2833, SIP-info
 3 REN support
 Class 5 features
 DECT CAT-iq 2.1 (PX785 only)

USB features

NTFS and FAT32 file system storage devices

Management and control

TR-069, TR369
 TR-181, TR-104 data models
 Command Line Interface (CLI)
 Web based GUI

Genexis EasyWiFi App

Genexis CloudSight
 Fail-safe firmware upgrade

Regulatory compliance

Radio Equipment Directive 2014/53/EU
 EU-CoC-BBE power consumption
 Energy Related Products Directive 2009/125/EC
 CE Safety Directive 2014/35/EU
 RoHS and REACH Directive 2011/65/EU
 ITU-T K.21 standard compliancy

Package content

Aura PX780
 Power supply unit
 Ethernet cable
 Quick installation guide

Genexis Aura PX780-series models

Model	Uplink WAN (Mbps)	LAN (Mbps)		Wi-Fi 4x4 2.4 GHz	Wi-Fi 4x4 5.0 GHz	FXS	USB	DECT
Aura PX780	10G PtP/AE	1x 1x 2x	100/1000/2500/10000 100/1000/2500 100/1000	11be	11be	1x	1x	No
Aura PX785	10G PtP/AE	1x 1x 2x	100/1000/2500/10000 100/1000/2500 100/1000	11be	11be	1x	1x	Yes