

# Fiber Box W7+

Technical sheet



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Internet.TV. Mobile.

Box W7 is a compact and powerful Wi-Fi 7 10G PON home gateway, dedicated to 3-play XGS GPON services. Box W7 is based on the latest XGS-PON technologies, providing up to 8 Gbit/s symmetrical download & upload (+2Gbit/s for error correction) and very low latency delivering high performance in services as XR, 4K video streaming, online gaming and cloud services.

LIGHT SPEED CONNECTION

Box W7 integrates the most powerful and up to date dual core ARM based CPU of the 10G PON market, providing the state of the art for a multi connection product, eg 10G PON. This will provide the best user experience for internet browsing, Voice over IP, 3D & 4K IPTV (including multi STB offer) online gaming and Cloud Services

TOP CLASS WIRELESS INTERFACE

Box W7 offers a powerful and reliable Wi-Fi 7 Wireless LAN connection. It integrates a 802.11be 3x3 interface in 2.4GHz, with 40MHz channels supported , a high speed Wi-Fi 802.11be 4x4 interface in the 5GHz band, with 160MHz channels supported and the latest Wi-Fi 802.11be 4x4 interface in the 6GHz Band, with 320Mhz channels supported. Box W7 features high level of security up to WPA3, as well wireless QoS WMM and Multi-Link Operation (MLO).

RICH VOICE CONTENT

Box W7 offers state-of-art voice services through 2 FXS.

SMART IPTV

Box W7 supports several simultaneous set-top boxes thanks to its Gbps capable core, and its Video Grade access point. The home gateway ensures glitch free TV transport using a full set of features addressing specific IPTV challenges: robust optical transceiver, multi-layer QoS

NAT/FIREWALL

The secure firewall (IPv4/IPv6) allows Stateful Packet Inspection and complete address / port / protocol filtering

PARENTAL CONTROL

Box W7 allows you to set schedules to pause the internet for connected devices according to the needs of the parents. It also allows to block access to URLs that parents deem inappropriate for their children.

POWER SAVING

The Box W7 supports Deep Sleep Mode, allowing you to schedule power-off periods through the GUI. Energy-Efficient Ethernet is enabled for all Ethernet ports reducing power consumption during periods of low data activity. The Box also allows the user to program time slots in which Wi-Fi radio

VPN SERVER

Box W7 provides VPN server to access remotely your home network from any Android/iOS/Windows or MacOS device. The connection is point to point encrypted IKEv2 IPsec tunnel.

MESH WI-FI AGENT INTEGRATED

Box W7 supports EasyMesh R6 Protocol ensuring the following services:

- 802.11k/v support
- Multi-link Operation and band steering 2,4GHz/5GHz/6GHz
- AP steering

Technical Features

PLATFORM

- WAN: XGS-PON 10Gbps/10 Gbps BOSA on-board
- USB 3.1 for LTE/4G backup
- LAN:
  - 1 port RJ45 100/1000/10000 Mbps
  - 4 ports RJ45 10/100/1000 Mbps
  - 1 USB 3.1 for HDD support
  - 2 FXS

WIRELESS

- Tri-Band Wi-Fi 7 - 802.11be access point:
  - 2.4GHz 3x3 up to 40MHz
  - 5GHz 4x4 up to 160MHz
  - 6GHz 4x4 up to 320MHz
- UL/DL OFDMA
- UL/DL MU-MIMO
- Multi-Link Operation (MLO) supported on all bands
- Automatic & Dynamic Channel Selection
- WPA/WPA2/WPA3
- WPA3 Transition Mode
- WPA3 Compatibility mode
- EasyMesh R6 compliant
- Matter protocol compatible
- Primary and Guest Wi-Fi support
- Scan Neighbours Access Points
- MAC filter support
- 802.11k/v support

VOICE

- Signalling SIP
- Codecs G.711/G.729
- Fax G.711 transparent
- CLIP/CLIR
- Call Waiting
- Call Hold
- Call transfer
- 3-Way call
- Call forward (unconditional, busy, no answer)
- MWI/VMWI
- SIP-ALG

ROUTING/QOS

- VLAN QoS 802.1p
- IP Diffserv
- WAN Dual Stack (IPv4/IPv6)
- DHCPv6 IA-PD
- SLAAC
- DNS v4/v6 proxy
- Firewall v6 ready
- Dynamic DNS Client
- VPN Server IKEv2 IPsec

MEDIA

- NAS/Samba/DLNA
- Device discovery
- UPnP IGD
- UPnP AV

FIREWALL

- Stateful Packet Inspection IPv4 & IPv6
- Filtering of services/port/addresses in IPv4/IPv6
- Intuitive address and port forwarding/triggering
- DMZ

PHYSICAL

- Operating:
  - 0 to 45°C
  - 10 to 90% humidity
- Power :
  - 100 to 240VAC
- Full EU CoC v7 compliance

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