

FOS 1900 – FIBER TO THE HOME



PERFORMANCE with 1000 Mbps internal routing performance one of the fastest Residential Gigabit Ethernet CPE in the market

PLUG & PLAY fiber pre-wiring enables easy end customer installation

VARIETY
Router, WLAN, POTS, USB, CATV



HIGH PERFORMANCE GTTH GATEWAY

The new generation CPE

The FOS 1900 is an easy-to-install high-performance home gateway for Gigabit-to-the-home (GTTH) networks. Packed with features to support triple-play services including high-definition TV services, the FOS 1900 is the ultimate home gateway for fiber and copper networks. With four Gigabit LAN ports and an USB port for external hard-drive, the FOS 1900 is designed for residential customers, small offices and medium size businesses.

Supports GTTH

The FOS 1900 WAN is multi-rate and supports 100 Mbps and 1 Gbps speeds on the fiber link. The network operator can deploy the Gigabit FOS 1900 today and be ready for the next generation access. As the network is upgraded, there is no need to revisit the customer and change the equipment. The FOS will automatically detect the speed that is used.

Wirespeed firewall and NAT

The FOS 1900 has a high-performance network processor which allows the unit to perform firewall and network address translation at wirespeed. This extends the lifetime of the FOS into the Gigabit Ethernet age.

IPv6 Ready

The FOS 1900 also operates as an IPv6 router, supporting stateful address assignment on the WAN with prefix delegation to allow native IPv6 routing into the home. In addition, 6to4 and 6rd transition mechanisms are also supported to allow deployment into legacy non-IPv6 networks.

Managed by TR-069 or SNMP

TR-069 is widely deployed for the management of DSL modems. The FOS 1900 has a built-in TR-069 client that allows an existing AutoConfiguration Server (ACS) to also manage the FOS. If no ACS is available, the FOS can be managed using the standard SNMP and TFTP protocols, for configuration and data collection for monitoring services.

VoIP and WiFi

The FOS 1900 is available in multiple variants which support POTS telephony with a built-in SIP Voice-over-IP client. Models with an 802.11b/g/n access point support up to 300 Mbps wireless communication, which gives customers access to the network anywhere in the home without having to build a wired network.

Remote-managed CATV

Models with the built-in CATV receiver make it possible to offer an optical TV signal over fiber that is converted by the FOS 1900 into a traditional electrical RF signal. A frequency filter allows premium channel packaging without the use of set top boxes (STB). The TV signal can also be adjusted through Automatic Gain Control (AGC).

Easy 1-click installation

The FOS 1900 uses a click-on mechanism for easy integration with the FOS Base fiber termination unit. This gives network builders a cost-effective and robust solution for terminating fiber access.

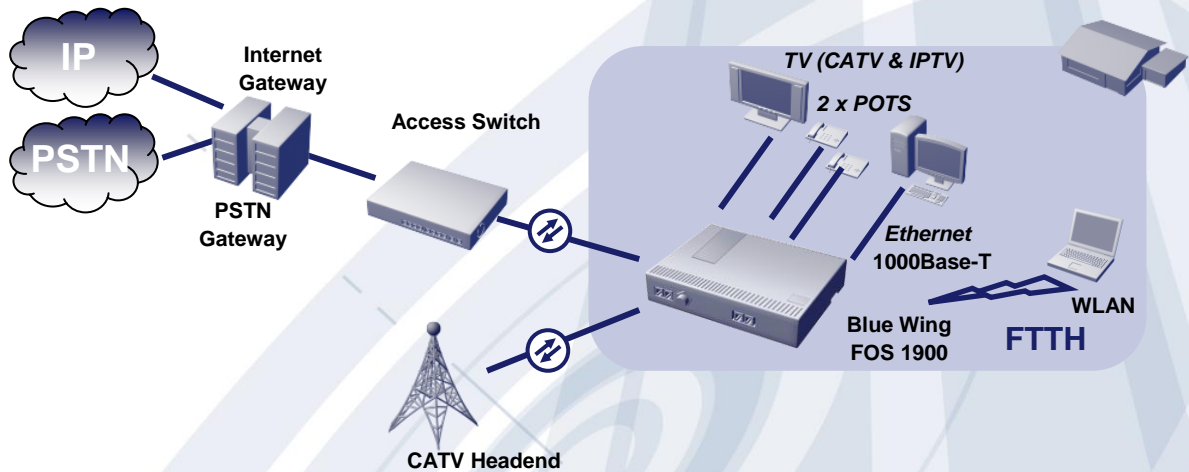
Once the FOS Base and fiber connectors have been installed, customers can simply install the FOS 1900 unit themselves with the 1-click installation design. No special skills or patch cables are required.



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APPLICATION



TECHNICAL DATA

Optical interface (WAN)

- Wavelength:
 - TX: 1310 nm
 - RX: 1480 nm ... 1580 nm (wideband)
- Max. / min. output power: -3 dBm / -9 dBm
- Max. / min. input power: -3 dBm / -23 dBm
- Autodetection FE / GigE

LAN interfaces

- Ethernet LAN: 4 × 10/100/1000Base-TX RJ45; Auto MDI / MDIX
- Router or Switch Mode

Telephone services (POTS)

- Voice function
- Phone sockets: 2 × RJ11
- Additional voice codecs: G.722 Wideband (HD voice support)
- Supplementary services: 3PTY; CLIP; CLIR; HOLD; CW etc.
- Country-specific analogue parameter set
- Line testing for a/b ports

Quality of Service

- Diffserv: Layer 3 (IP)
- Class of Service: IEEE 802.1p, Layer 2 (Ethernet) QoS mechanism, 4 hardware queues for prioritization
- IGMP snooping: v2 and v3

Traffic classification and security

- VLAN: Services and port separation
- Hybrid links: Tagged and untagged traffic simultaneously on the same link

Management

- Protocols: TR-069, SNMP v1/v2 including MIB-II and enterprise-specific MIB
- HTTP server: Single access level for end-user configuration of home network features
- TFTP/HTTP client: Software download
- DHCP: Configuration support

USB interface

- Standard: 1 × USB 2.0 (storage support)
- For external hard drive

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blue wing

TECHNICAL DATA

CATV interface (optional)

- Frequency range: 45 MHz ... 875 MHz
- Filter selector on/off: 87 MHz ... 875 MHz, High-pass filter, 40 dB attenuation
- RF output impedance: 75 Ω
- Output return loss: 14 dB
- RF output level: EU-1, 78 dB μ V ... 82 dB μ V
- Flatness: \pm 1.5 dB
- Automatic Gain Control (AGC): -10 dBm ... 0 dBm

WLAN interface

- Standards 802.11g,b,n
- RF output level: \leq 70 mW
- Maximum capacity: 300 Mbps

Physical parameters

Power supply

- Power requirements: 7.5 W ... 12.0 W
- Power supply: 12 V DC, 1.5 A, external plug-in wall adapter

Casing

- Dimensions (W \times D \times H): 202 mm \times 170 mm \times 53 mm
- Weight: approx. 445 g

Environmental conditions (operation)

- Air temperature: 0 $^{\circ}$ C ... +40 $^{\circ}$ C
- Rel. humidity: 5 % ... 95 %, non-condensing

EMC & Safety

- CE mark
- FCC Part 15, Subpart B
- EN 60950-1
- EN 60825-1

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PURCHASE ORDER INFORMATION

Product designation	Order number
Blue Wing FOS 1919 (with VoIP + WLAN + USB 2.0)	900363
Base Plate (for pre-installation)	900365