

## 6768-W1 xDSL 4-Port 802.11b/g/n/ac Gateway

- ✓ **VDSL2 with Profiles**  
*8a/b/c/d, 12 a/b, 17a or ADSL2+, ADSL*
- ✓ **Supports falls back to ADSL2+ if VDSL2 training fails**
- ✓ **G.Vector Friendly, G.INP**
- ✓ **Integrated Gig-E Ethernet port for WAN uplink**
- ✓ **Dual band IEEE 802.11b/g/n/ac WiFi with 2.4 GHz (2x2) and 5GHz (3x3) antennas**
- ✓ **USB 2.0 Host For DLNA (File and Printer Sharing)**
- ✓ **TR-069 and TR-104 ready**



6768-W1 is a most versatile Broadband gateway for service providers that are seeking a single hardware that can support ultra-high bandwidth applications using VDSL2 technology, Gigabit Ethernet for FTTx. Using VDSL2 mode, the 6768-W1 series can support downstream connection rate at 100Mbps and 50Mbps upstream for triple play applications, or just double the bandwidth for existing ADSL2+ customers.

6768-W1 is the newest model of the 6700-W1 series of gateways designed for high-end triple-play-ready residential gateway with advanced router and bridge functions that supports multiple LAN interfaces.

Subscribers can enjoy always-on internet service even when DSL service is down by connecting a 3G dongle to one of the USB ports provided by the 6768-W1.

Inside the home, the 6768-W1 plays a central role in interconnecting all networking devices from PC, game consoles to tablet or smart phones to the internet. It provides wireless access to all 802.11b/g/n/ac devices via a built-in 2x2 (2.4GHz) and 3x3 (5GHz) MIMO antennas. Sharing files and printers among all connected devices is more convenient by connecting to the USB drive or printer to one of the USB ports.

## Technical Specifications

### Dimensions

- 6.75" (H) x 8.5" (W) x 2.75" (W), with stand
- 17.3 cm (H) x 21.6 cm (W) x 6 cm (W), with stand

### Weight

- 0.95 lbs
- 440 grams

### Power

- Input: 120- 240 VAC 50/60 Hz
- Output: 12VDC 2.5A

### Interfaces

- 1x RJ11 VDSL2/ADSL2+ (2 Pair)
- 5 x RJ45 10/100/1000-Base-TX Ethernet LAN
- 2 x USB Host 2.0
- 1 x Reset Button
- 2 x 2.4GHz built-in antennas
- 3 x 5GHz Built-in antennas
- 1 x ON/OFF Power Button
- 2 x WiFi On/Off Button
- 1 x WPS Button

### Wireless Support

- IEEE 802.11b/g/n/ac
- Frequency: 2.4GHz and 5 GHz
- Antenna configuration: 2.4GHz 2x2, 5GHz 3x3
- WiFi Power: 2.4GHz: 22.5dBm (~200mW) @ 40MHz; 24.5dBm (~300mW) @ 20MHz and - 5GHz : 23dBm (~200mW) @ 80MHz; 26dBm (~400mW) @ 20MHz)
- 4 SSIDs For each 2.4GHz and 5GHz Band
- 128 Clients/2.4G; 80 Clients for 5G
- External On/Off Button
- WPS (Wireless Protected Setup) with button or pin
- Supports 802.1x, WEP, WEP2, WPA; WPA2; TKIP; AES; 802.11i
- Hidden SSID
- WDS Bridge
- WMM for advance Quality of Service

### Standards Support

- ADSL2+
- ATM Support
  - ITU-T I.610 F4/F5 OAM Send and Receive/Loop back
  - Support up to 8 PVC's
  - RFC 1483/2684 (Bridged/Routed Ethernet over ATM)
- VDSL
  - ITU-T G.993.2 (VDSL2)
  - ITU-T G.993.1 (VDSL1)
  - ANSI T1-424
  - ETSI TS 101 270-1
  - ETSI TS 101 270-2
  - ITU-T G.994.1 (G.hs) based hand shaking
  - Supports band plan 997, 998, FX and China
  - VDSL2 profiles 8a/b/c/d, 12a/b, 17a and 30a
  - EFM (IEEE802.3ah)
  - Extended USO band up to 276kHz
  - VLAN to Port mapping
- Ethernet Interface
  - IEEE 802.3/802.3u compliant
  - Support 10/100Mbps operation
  - Support half/full duplex operation
  - Support IEEE 802.3u clause 28-auto negotiation
  - Support Flow Control
  - Support Auto MDI/MDIX
  - IP Multicast and IGMP snooping
  - Support 802.1d
  - IEEE 802.1q
  - IEEE 802.1p
  - Q-in-Q support
- Routing
  - Static routes
  - Dynamic routes: RIPv1 or RIPv2
  - PPP client
  - IGMP proxy
  - DHCP server and client
- Firewall
  - SPI firewall
  - Access control list based on IP and port
  - Port forwarding, virtual server
  - Support for one DMZ host
  - ALG support including FTP, PPTP, TFTP, IPSEC, RTCP

### Protocol Support

- ADSL2+
  - ANSI T1.413 (Full Rate ADSL)
  - ITU G.992.1 (DMT)
  - ITU G.992.2 (G-lite)
  - ITU G.992.3 (ADSL2)
  - ITU G.992.5 (ADSL2+)
  - ITU G.994.1 (G.hs)
  - ITU G.997.1
  - Annex L, M
- VDSL2
  - ITU-T G.993.2 (VDSL2)
  - ITU-T G.993.1 (VDSL1)
  - ANSI T1-424
  - ETSI TS 101 270-1
  - ETSI TS 101 270-2
  - ITU-T G.994.1 (G.hs) based hand shaking
  - Supports band plan 997, 998, FX and China
  - VDSL2 profiles 8a/b/c/d, 12a/b, and 17a
  - Extended USO band up to 276kHz
  - VLAN to Port mapping
- 3G (WCDMA, CDMA2000, TD-SCDMA)

### Management

- Local Management via Web/HTTP
- TR-069, TR-098 Remote Management
- SNMP GETs, SETs and TRAPs for four groups in MIB-II
- Embedded Syslog
- Firmware upgrade using HTTP, FTP, TFTP, TR-069
- Command line Interpreter (CLI)
- Multiple admin/user access

### Regulatory Compliance

- FCC Part 15/68
- UL
- CE
- RoHS Compliant
- UL-60950-1

### Operating Requirements

- Operating Temperature: 0°C - 45°C
- Storage Temperature: -20°C - 70°C
- Relative Humidity: 5% - 95% (non-condensing)

## Ordering Information

- 6768-W1-NA (North America Power Adapter)
- 6768-W1-UK (United Kingdom Power Adapter)
- 6768-W1-EU (European Power Adapter)



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