

## 6728-W1 xDSL Bonding 4-Port 802.11B/G/N Gateway

- ✓ *VDSL2 pair bonding with Profiles 8a/b/c/d or 12a/b or 17a or ADSL2+ Pair Bonding*
- ✓ *Integrated Gig-E Ethernet port for GPON development*
- ✓ *Supports IEEE 802.11b/g/n WiFi with 2-builtin transmitter and receiver antennae*
- ✓ *USB 2.0 Host For DLNA (File and Printer Sharing)*
- ✓ *3G (WCDMA, CDMA2000, TD-SCDMA) service via USB Dongle*
- ✓ *TR-069 and TR-104*



6728-W1 is a most versatile Broadband gateway for service provider that are seeking a single hardware that can support ultra-high bandwidth application using VDSL2 bonding pair technology, Gigabit Ethernet for FTTx or just double the bandwidth for existing ADSL2+ customers.

6728-W1 is one model based on a family of gateways designed for high-end triple-play-ready residential gateway with advanced router and bridge functions that supports multiple WAN interfaces.

Service Provider can deploy the 67xx series in ADSL2 mode while planning to upgrade the network to VDSL2. Using VDSL2 mode, the 67xx-W1 series can support downstream connection rate at 100mbps and 50mbps upstream for triple play application.

Subscriber can enjoy always-on internet service even when DSL service is down by connecting a 3G dongle to one of the USB port provided by the 67xx-W1.

ISP can use the same gateway for FTTx deployment by using the Gigabit Ethernet WAN to a GPON device.

Inside the home, the 67xx series 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 802.11 b/g/n devices via a built-in 2x2 MIMO antennae. The built-in DLNA server makes sharing digital multimedia files and USB printer via the USB ports.

## Technical Specifications

### Dimensions

- 6.75" (H) x 8.5" (W) x 2.75" (D)
- 17.15 cm (H) x 21.59 cm (W) x 6.03cm (D)

### Weight

- 0.95 lbs
- 440 grams

### Power

- Input: 120- 240 VAC 50/60 Hz
- Output: 12VDC 2A

### Interfaces

- 1x RJ11 VDSL2/ADSL2+ (2 Pair)
- 1 x RJ45 Gigabit Ethernet WAN
- 4 x RJ45 10/100-Base-TX Ethernet LAN
- 2 x USB Host 2.0
- 1 x Reset Button
- 2 x 802.11b/g/n built-in antennae
- 1 x ON/OFF Power Button
- 1 x WiFi On/Off Button
- 1 x WPS Button

### Wireless Support

- IEEE 802.11b/g/n
- Frequency: 2.4GHz
- Antenna configuration: 2x2 (Built-in)
- 4 SSIDs
- 128 Clients
- 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+
  - 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
  - China MII VDSL standard
  - 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
  - Extended US0 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
- 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, L2TP

### 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
  - ITU G.998.1 (ATM bonding)
  - Annex L
  - Annex M
  - PhyR
  - G.INP
- VDSL2
  - ITU-T G.993.1 (VDSL1)
  - ITU-T G.993.2 (VDSL2)
  - ITU-T G.998.2 (Ethernet-based pair bonding)
  - ANSI T1-424
  - ETSI TS 101 270-1
  - ETSI TS 101 270-2
  - China MII VDSL standard
  - 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, or 17a
  - VDSL2 bonding (8a/b/c/d or 12/a/b or 17a )
  - Extended US0 band up to 276kHz
  - VLAN to Port mapping
  - G.INP
  - G.Vector
- 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
- Operating Humidity: 5% - 95% (non-condensing)
- Storage Temperature: -20° C - 70° C
- Storage Humidity: 5% - 95% (non-condensing)