

# APL1000-100 TurboSpeed™ PowerLine Ethernet NetBridge™



## Plug-and-Play Ethernet Bridge

### FEATURES & BENEFITS

- Compliance with HomePlug v1.0 and IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX
- Up to 85Mbps bandwidth over the standard facility electrical power lines
- Transparent to facility circuit breakers
- Simple Plug-and-Play installation
- Supports up to sixteen APL1000-100 devices on one network domain
- 56-bit DES encryption for data transmission security
- Network segmentation through network password configuration
- Ident-and-Connect™ feature allows ease of network scan and network segmentation setup
- Supports MDI/MDIX auto detection
- Independent LEDs for PowerLine status and Ethernet activity/link indication
- Up to 300 meters of operational distance

### OVERVIEW

The Aboundi APL1000-100 TurboSpeed™ PowerLine Ethernet NetBridge™ allows the Plug-and-Play simplicity utilizing the existing facility AC power electrical wiring as networking connections. The NetBridge™ allows IP Camera, Video Server, POS machine, Media Converter, Printers, Digital Signage and Network Equipments to be easily networked through multiple AC power outlets to share Internet access.

The NetBridge™ can be quickly installed for commercial applications where small to medium sized networking group applications are in use or needed. Work locations are easily reallocated without the need to rewire “home run” Ethernet drops.

The APL1000-100 NetBridge™ connects to any 10/100Mbps Ethernet ports on the computer, hence make it compatible with any Mac, Windows, and Unix machines.

All NetBridge™ devices are equipped with 56-bit DES encryption for enhanced security. Combined with network segmentation and device encryption, the NetBridge™ is as secure as any traditional Ethernet wiring.



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## SPECIFICATIONS\*

### Compliance:

- HomePlug V1.0
- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX

### Modulation:

- OFDM (QAM 256/64/16, DQPSK, DBPSK)

### Frequency Band:

- 4.3MHz ~ 20.9MHz

### Interface:

- RJ-45 connector, using CAT.5 cable or better
- 85Mbps PowerLine port

### Effect Data Rate:

- Up to 25Mbps effective throughput

### Access Methods:

- CSMA/CA

### Encryption:

- 56-bit DEC Link Encryption with key management

### Nodes:

- Supports up to sixteen APL1000-100 per network domain

### Mechanical:

- W x D x H : 97 x 69 x 46 mm/ 3.8 x 2.7 x 1.8 in
- Weight : 145g (0.32lbs)
- Housing : Plastic
- LED : PowerLine : COL/ACT/LNK/  
LAN : LNK-ACT

### Environmental:

- Temperature  
Operating : 0 ~ +55°C/ +32 ~ +131°F  
Storage : -20 ~ +60°C/ -4 ~ +140°F
- Humidity  
Operating : 10 ~ 85% RH (non-condensing)  
Storage : 5 ~ 90% RH (non-condensing)

### Power Supply:

- Input rating : 100 ~ 240VAC, 50/60 Hz

### EMC/ Safety Certification:

- FCC Part 15, Subpart B
- UL, CUL
- CE

### ORDERING INFORMATION

APL1000-100-01: 110 VAC Plug

APL1000-100-02: 220 VAC Plug

APL1000-100-03: 220 VAC UK Plug

