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 electric power lines
- Transparent to facility circuit breakers
- Simple Plug-and-Play installation
- Supports up to 16 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 detect
- Independent LEDs for PowerLine status and Ethernet activity/link indication
- Up to 300meters/1000 feet of operational distance

OVERVIEW
The Aboundi APL1000 PowerLine Ethernet NetBridge™ allows the Plug-and-Play simplicity utilizing the existing facility AC power electric wiring as networking connections. The NetBridge™ allows multiple desktops, notebooks, even game consoles and audio video (AV) equipments to be easily networked through multiple AC power outlets in every room to share Internet access, printers and files.

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

The APL1000 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.
SPECIFICATIONS*

Compliance:
• HomePlug V1.0.1
• 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 UTP 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 16 nodes 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

*Specifications subject to change.