

# APL4200-100 TurboSpeed™ UPS-able Quad PowerLine NetBridge™



## UPS Power Ready & High Surge Protection Ethernet Bridge

### FEATURES & BENEFITS

- Uninterruptible PowerLine networking during facility power outage while UPS sustaining computer and peripheral devices operation
- Four shielded RJ-45 MDI/MDIX auto detection Ethernet ports
- Four power outlets with high surge protect capability (1400 Joules) with UPS power pass through support
- 10A Over Current/Circuit Short Protection to protect both attached equipments and the UPS source
- Up to 85Mbps speed over the standard facility electrical power lines
- Transparent to facility circuit breakers
- Simple Plug-and-Play installation
- Supports up to sixteen APL4200-100 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
- Up to 300 meters of operational distance
- Compliance with IEEE 802.3 10BASE-T, IEEE 802.3u 100BASE-TX, HomePlug

### OVERVIEW

The patent pending Aboundi APL4200-100 TurboSpeed™ Series UPS-able Quad PowerLine Ethernet NetBridge™ allows the Plug-and-Play simplicity with continuous networking connectivity even during power outage by utilizing the existing UPS system to facilitate network powering support. The APL4200-100 enables IP Camera, Video Server, POS machine, Media Converter, Printers, Digital Signage and Network Equipments for easy Local Area Networking (LAN) and broadband access in a tight clustered space.

The Quad NetBridge™ can be quickly installed for commercial applications where small to medium sized networking group requires UPS operational continuity. This networking group can be very easily reallocated without the need to rewire “home run” Ethernet drops to such cluster group locations with uninterruptible network operational reliability.

The APL4200-100 Series Quad NetBridge™ is designed specifically for small cluster networking applications by providing four MDI/MDIX auto detection RJ-45 ports that can be connected to any 10/100Mbps Ethernet ports on computers and other peripheral devices.



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## SPECIFICATIONS\*

### Compliance:

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

### Frequency Band:

- 4.3MHz ~ 20.9MHz

### Interface:

- Four shielded RJ-45 Connectors
- 85Mbps PowerLine connectivity
- Integrated four noise filtered and surge protected AC Power Outlets

### Access Methods:

- CSMA/CA

### Encryption:

- 56-bit DES Link Encryption with key management

### Nodes:

- Supports up to sixteen APL4200-100 per network domain

### Mechanical:

- W x D x H : 120 x 235 x 40 mm/ 4.72 x 9.25 x 1.57 in
- Weight : 450g (1lb)

### LED:

- Power LED: Green  
On: Power On Off: Power Off
- Status LED:  
PowerLine : Green  
On : Link Blink : Activity  
Ethernet Ports : Green (Ports 1-4)  
On : Link Blink : Activity

### Environmental:

- Temperature  
Operating : 0 ~ +40°C/ +32 ~ +104°F  
Storage : -25 ~ +60°C/ -13 ~ +140°F
- Humidity  
Operating : 10 ~ 90% RH (non-condensing)  
Storage : 10 ~ 95% RH (non-condensing)

### Power Supply:

- Input rating : AC110V, 50/60 Hz, 10A with UPS pass through
- Surge energy rating : 1400 Joules
- Over current protection : 10Amps

### EMC/ Safety Certification:

- FCC Part 15, Subpart B, Class B
- UL/cUL60950-1, UL1449
- CE Class B

### ORDERING INFORMATION

APL4200-100-01: 110 VAC Plug

APL4200-100-02: 220 VAC Plug

APL4200-100-03: 220 VAC UK Plug

US Patent 7,592,717

