



## 11-48Vdc Powered 200Mbps Networking Connectivity With Digital I/O Control

### FEATURES & BENEFITS

- Up to 200Mbps Ethernet transmission speed over the existing coaxial cables
- Universal Digital I/O interface
- Up to 2.5 KM of operational distance
- Redundant 11-48Vdc power input
- 3DES 168-bit, AES 128-bit and AES 256-bit encryption for secure data transmission
- LED diagnostic for easy performance visual indication
- Web based remote configurability
- Integrated Quality of Service (QOS) allows reliable triple play applications
- Compliance with IEEE802.3 10BASE-T, IEEE802.3u 100BASE-TX, UPA
- Virtual CAT5™ capability via twisted pair telephone lines, AC wiring
- BNC coaxial port with build in 1KVdc Isolation protection for high surge and power variation

### OVERVIEW

The Aboundi APL3400-200-04 UltraSpeed™ CoaxLine Quad Ethernet I/O Control NetBridge™ enables the efficient networking deployment utilizing the existing coaxial cabling or the telephone grade copper wiring infrastructure already in place. It provides a reliable high speed Ethernet connection cost effectively without the folk lift upgrade for any high speed IP based networking applications.

The APL3400-200-04 NetBridge™ enable digital event handling, alarm notification, sensors and turning on and off equipments remotely by the digital I/O interface. This can be quickly installed for a verity of commercial applications where high speed bandwidth connection with additional control features may be required.

The APL3400-200-04 NetBridge™ is fully compatible with all Electric Connect UltraSpeed™ series and accessories.



# UltraSpeed™ CoaxLine Quad Ethernet with I/O Control NetBridge™

## SPECIFICATIONS\*

### Compliance:

- IEEE802.3 10BASE-T
- IEEE802.3u 100BASE-TX
- UPA DHS (200Mbps)

### Frequency Band:

- 2MHz ~ 30MHz

### Dynamic Range:

- 50dB

### Interface:

- 4 shielded RJ-45 Connectors
- One 50 ohm BNC-Type Connector
- 2 Digital Input Connectors
- 2 Digital Output Connectors

### Security Encryption:

- 3DES 168 bits, AES 128 bits, AES 256 bits

### QOS:

- VLAN IEEE802.1 p/q

### Max. Nodes:

- Supports up to sixteen NetBridges per network domain

### Mechanical:

- W x D x H : 102 x 30 x 120 mm / 4 x 1.2 x 47.5 inch
- Weight : 260 g (0.6 lb)

### LED:

- Power LED: Green ( PWR )  
On: Power On Off: Power Off
- Status LED:  
Application Bandwidth :  
Blue ( LNK/ACT ) On : Link speed over 12 Mbps  
Purple ( LNK/ACT ) On : Link speed between 6-12 Mbps  
Amber ( LNK/ACT ) On : Link speed under 6 Mbps  
Blink : Activity
- Ethernet Ports : Green ( LNK/ACT )  
On : Link Blink : Activity

### Environment:

- Temperature  
Operating : -20 ~ +65°C/ -4 ~ +149°F  
Storage : -20 ~ +80°C/ -4 ~ +176°F
- Humidity  
Operating : 5 ~ 95% RH (non-condensing)  
Storage : 0 ~ 95% RH (non-condensing)

### Power Supply:

- Input rating : DC 11V ~ 48V , 0.6A or AC 24 ~ 38V
- Polarity reversal protection
- Redundant power input with 4-pin pluggable terminal block

### EMC/ Safety Certification:

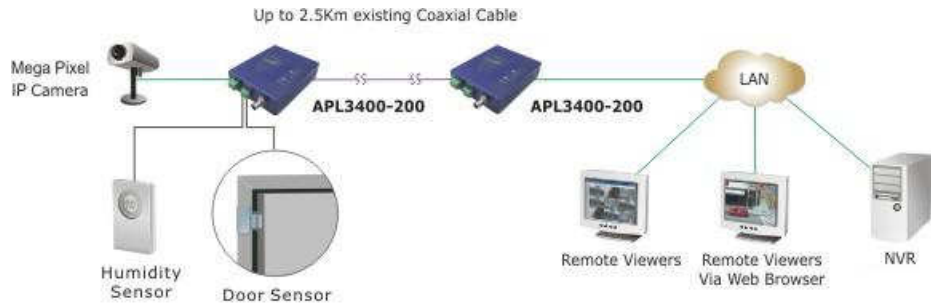
- FCC Part 15, Class B
- CE Class B (EN55022/55024 & EN50412-2-1)
- UL/cUL
- CB Scheme

### ORDERING INFORMATION

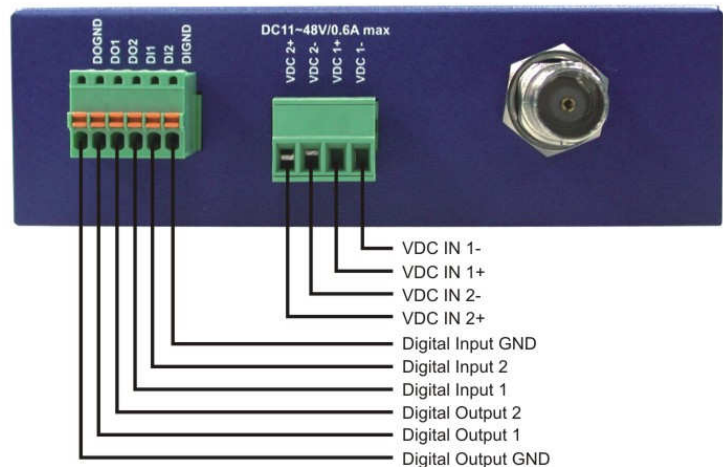
APL3400-200-04: NetBridge with IO Control

### Digital IO Electrical Characteristic:

- Input ports: Hi Level : 3.4V min.  
Lo Level : 1.3V max.
- Output ports: Hi level : 4.3V @ -32mA or 4.8V @ -0.1mA  
Lo Level : 0.6V @ 32mA
- Protection: ESD Air 8KV, Contact 4KV



Application Diagram



Interface Assignment

