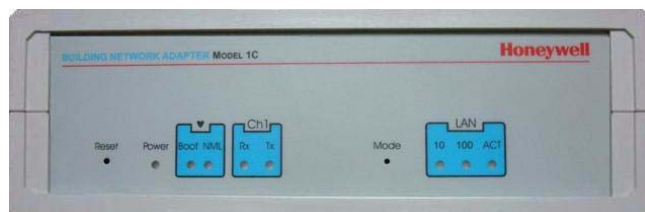


C-Bus Building Network Adapter 14507741-003/U CBNA

SPECIFICATION DATA



APPLICATION

The C-Bus series Building Network Adapter (CBNA) provides connection of a Honeywell Controller Communication Bus to an industry standard 10/100BaseT Ethernet LAN. It delivers exceptional price/performance to meet the requirements of both building owners and service providers.

With its combination of scalable performance, density and low per-port pricing, the CBNA allows network-layer capabilities to be extended to a much wider range of network configurations and environments. Customers can now gain the advantages of high-performance network and services, including traffic management, to more locations throughout the network.

The CBNA provides a single RS-485 DC coupled C-Bus-compatible communication channel for Excel 800 and Excel 5000[®] family devices with up to 76.8 kbps and single RS-232 and 10/100 BaseT interfaces.

The CBNA uses the LAN connection to provide a seamless communication to the requesting device.

Status information, like *LAN communication activity*, *field bus traffic communication* and *system heartbeat* of the CBNA is indicated by LEDs on the device front. See Fig.1.

FEATURES

- Controller bus interface to Ethernet LAN.
- TCP/IP network capable.
- Offers wide range of network connectivity options.
- Easy configurable network interface.
- Online system diagnostic support.
- Communications panel mounting ears included.
- Cost effective replacement for dial-up connections.
- Preloaded with application software and default network address.

SPECIFICATIONS

Model:

14507741-003/U C-Bus Building Network Adapter CBNA.

Electrical Ratings:

Supply Voltage: 24 VAC, 50 to 60 Hz, 24 VDC (external power supply required).

Power Consumption: 8 VA.

Temperature Ratings:

Operating: 32° F to 122° F (0° C to 50° C).

Storage: -13° F to +185° F (-25° C to +85° C).

Humidity Ratings:

5 to 93% RH, non-condensing.

System Data:

Processor: 32-bit high-speed microprocessor.

Data Transfer: 10/100 Mbit/sec., 802.3 Ethernet.

LAN Interface: 10/100BaseT (RJ-45).

Field Bus: RS-485 DC coupled C-Bus.

Device Interface: Serial RS-232.

Memory Type: SDRAM, NOR & NAND Flash.

MTBF: > 100,000 hours.

Safety:

Protection Standard: IP20 according to EN60529.

Protection Class: II according to EN60730-1.

Flame Retardant: V0 according to UL 94.



Dimensions (W x H x D): 8-13/16 in. (224 mm) x 2-13/16 in. (72 mm) x 7-13/16 in. (199 mm).

Weight: 2.0 lb (0.9 kg).

Approvals:

- Electromagnetic Compatibility (EMC): EN50081-1 and EN50082-2.
- Electromagnetic Emission (EME): FCC Class A.
- Energy Management: UL 916. PAZX.
- This device is NOT listed for fire or smoke control applications.

Additional Equipment:

- DC Power Supply: 50017367-001 Jameco® Model No. DDU240050, 120 VAC, 60 Hz input, 24 VDC, 0.500 A output, wall mounted power cube Class 2 (included).
- AC Power Supply: 120 VAC/50 to 60 Hz input, 24 VAC output, 14507287 series.
- Mounting: 14006090-555151 Series Communication Panels.
- 14507678-004 Ditek Ethernet Port Surge Protector.
- 14502412-014 Lightning Protector.

SYSTEM OVERVIEW

Fig. 1 shows an application example of the CBNA family devices in a Building Management System.

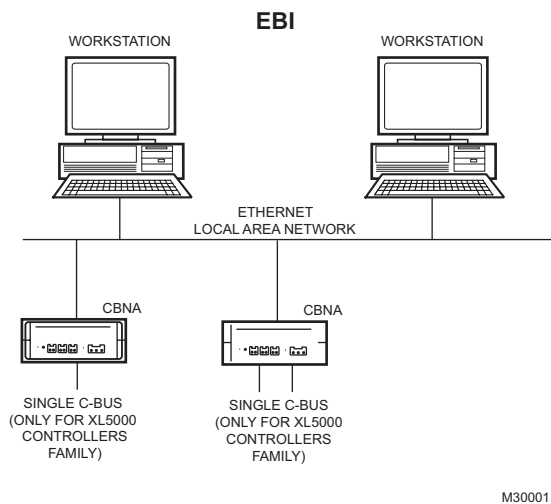


Fig. 1. Application block diagram.

- Typical characteristics of the CBNA components are as follows (see Fig. 2):
- CBNA:** The CBNA contains a high-speed state-of-the-art 32-bit microprocessor including a communication coprocessor designed for maximum performance. It is designed for reliable and robust operation under a wide range of operating conditions.
 - 10/100BaseT:** 10/100BaseT RJ-45 Ethernet LAN connector meets the requirements of ANSI/TIA/EIA 586 Category 5 for unshielded twisted pair connections.
 - RS-232:** 9-pin SUB-D male RS-232 connector, electrically isolated, PC pin compatible, protected against spikes.
 - Field Bus:** Deplicable connectors for field bus connection electrically isolated, meets the EMC and FCC requirements.
 - Power:** 3-pole Phoenix power connector for 24 VAC/DC power supplies

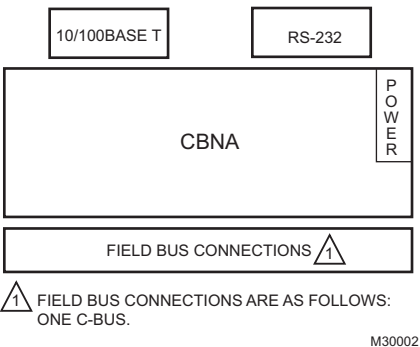


Fig. 2. CBNA components.

ORDERING INFORMATION

Model No.	Description	Shipping Wt.
14507741-003/U	C-Bus Building Network Adapter supporting a single RS-485 DC coupled C-Bus.	3.0 lb. (1.4 kg)

Automation and Control Solutions

In Pacific

Honeywell Pacific

Level 3, 2 Richardson Place

North Ryde, NSW 2113

In North America

Honeywell International Inc.

1985 Douglas Drive North

Golden Valley, MN 55422

In Asia

Zhang Jiang Hi-Tech Park

No. 430, Li Bing Rd, Pudong New Area

Shangai, 201203, China

In Europe, Middle East, Africa & India

Hermes Plaza

Hermeslaan, 1H

B-1831, Diegem, Belgium

www.honeywell.com/buildingsolutions

