CLIF-CBUSLC
Interface

Product Data

CENTRA LINE® by Honeywell

GENERAL

For CentraLine partners who need to offer an integrated supervisor solution when refurbishing or extending legacy projects of the installed base, Honeywell's virtual C-Bus over LONWORKS interface and driver provide integration of physical C-Bus over LONWORKS without replacing the XL5000 controllers. We do this by installing the new C-Bus via LONWORKS interface or replacing legacy supervisors. Specifically, CLIF-CBUSLC provides the following benefits:

- Enables existing systems with XL5000, PANTHER, TIGER, and LION controllers for web operation;
- Converts existing proprietary systems with XL5000, PANTHER, TIGER, and LION controllers as part of an open, integrated solution architecture;
- Migrates XL5000, PANTHER, TIGER, and LION controllers from their legacy ARENA Classic Supervisors or SymmetrE or EBI Supervisors to Niagara AX/ NX;
- Allows subsequent refurbishment/ extensions of legacy installations through new products (e.g. HAWK, EAGLEHAWK).

Customers gain the advantages of high-performance network and services, including traffic management to more locations throughout the network. The CLIF-CBUSLC supports:

- an RS485 isolated C-Bus-compatible communication channel (capable of rates of up to 76.8 kbps) for CentraLine C-Bus devices;
- virtual C-Bus over LONWORKS connected (via IF-LON2) to the USB 2.00 Host Interface;
- Standard LONWORKS interface (via IF-LON2) using Niagara (requires Niagara 4.4 or higher).

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

Status information like: "LAN communication activity" and "field bus traffic communication" are indicated by LEDs located on the front of the device.

FEATURES

- **TCP/IP network-capable**
- **Offers connection options to**
  - **physical C-Bus**
  - **C-Bus over LONWORKS (virtual C-Bus)**
  - **Standard LONWORKS (requires Niagara 4.4 or higher)**
- **Easily-configurable network interface**
- **Optional wall and rack mounting**
- **No user-serviceable parts inside**

TECHNICAL DATA

Table 1. Controller specifications

Ambient temperature	0 … 40 °C (wall-mounting) 0 … 50 °C (cabinet-mounting)
Storage temperature	-20 … +70 °C
Humidity	5 … 95% r.h. non-condensing
Dimensions	215.5 x 110 x 61 mm (L x W x H)
Degree of protection	IP20 (mounted on walls, with two accessory MVC-80-AC1 covers) IP30 (mounted in cabinet doors, with accessory MVC-80-AC2)
Fire class	V0
Shock protection	Class II
Pollution degree	2
Installation	Class 3
Rated impulse voltage	330 V for SELV, 2500 V for relay outputs
Overvoltage category	II
Automatic action	Type 1.C
Software class	Class A
Ball-pressure test temperature	housing parts >75°C terminals >125°C

Table 2. Electrical data

Power supply	19 … 29 VAC, 50/60 Hz or 20 … 30 VDC
Power consumption	Typically dc: 5 W, max. 6 W typically ac: 9 VA, max. 11 VA
Heat dissipation	Max. 6 W at dc power supply max. 11 W at ac power supply
Current consumption	Typically dc: 210 mA, max. 240 mA typically ac: 370 mA, max. 410 mA

SYSTEM SCENARIOS

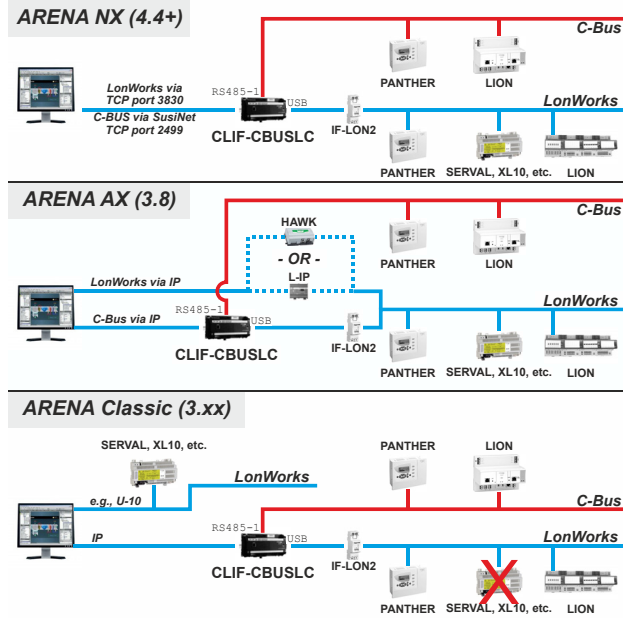Fig. 1 shows different scenarios for the CLIF-CBUSLC in a Building Management System.

Fig. 1. System scenarios

CLIF-CBUSLC ARCHITECTURE

Typical characteristics of the CLIF-CBUSLC components are as follows:

Microprocessor

ARM 9 32-bit processor, 450 MHz.

10/100Base T

10/100BaseT RJ-45 Ethernet LAN-connector; meets the requirements of ANSI/TIA/EIA 568 Category 5, for unshielded twisted pair connections. The device is connected to the IP backbone via this interface.

RS232

The RS232 interface with RJ45 socket is to be used for factory-debugging, only.

USB 2.0 Host Interface

For connection of the IF-LON2 (virtual C-Bus over LONWORKS, etc.).

USB 2.0 Device Interface

For connection to a PC with a web-browser. The system is configured via this interface.

C-Bus

Electrically isolated RS485 interface (RS485-1) used for C-Bus communication.

3rd-Party Software Licenses

This product contains software provided by third parties. See also EAGLE Controller – Third-Party Software Licenses (Product Literature No.: EN2Z-0991GE51).

3-Position Bus Termination Switch

The CLIF-CBUSLC features a free-position slide switch for setting the bias and termination resistance of the RS485-1 interface.

NOTE: MUST REMAIN IN MIDDLE POSITION!

Power

2-pole Phoenix power connector for 24 Vac/dc power supplies. Suitable for use of off-the-shelf power supplies.

INSTALLATION

See CLIF-CBUSLC – Installation & Commissioning Instructions (EN1Z-1026GE51).

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