

Heading and Description:

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Product Ranges: Cooper Network Card
Circulation: Internal Sales/Service/Technical

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Description:

The YPCB2202 Lonworks network interface enables Cooper fire panels to communicate with each other using a Lonworks network. The L1019 performs a gateway function transferring serial data between the panels and the network. The YPCB2202 uses the Echelon FT5000 smart transceiver and connects to the network using the FT-X3 transceiver which provides high noise immunity and is insensitive to the polarity of the network wiring.

Features:

Network Terminators

Network termination resistors are incorporated on the card and can be switched in or out of circuit using switch SW1. The value of the termination resistance can also be switched between 51 Ω and 102 Ω for use in either bus or loop network configuration.

SW1 settings

ON	Terminator connected
OFF	Terminator disconnected
BUS	Terminator value = 102 Ω (Bus topology)
LOOP	Terminator value = 51 Ω (loop topology)

Screen Termination

Terminals S1, S2 and E, are provided to allow connection of the network cable screens to the panel earth. Screen termination components are incorporated on the card. Connect the screens of the incoming and outgoing cables to S1 and S2. Connect the panel earth to E.

Network variables

The network variables on the YPCB2202 interfaces are pre-configured to allow panels to communicate on the network without the need for the need for binding.

BMS Interface

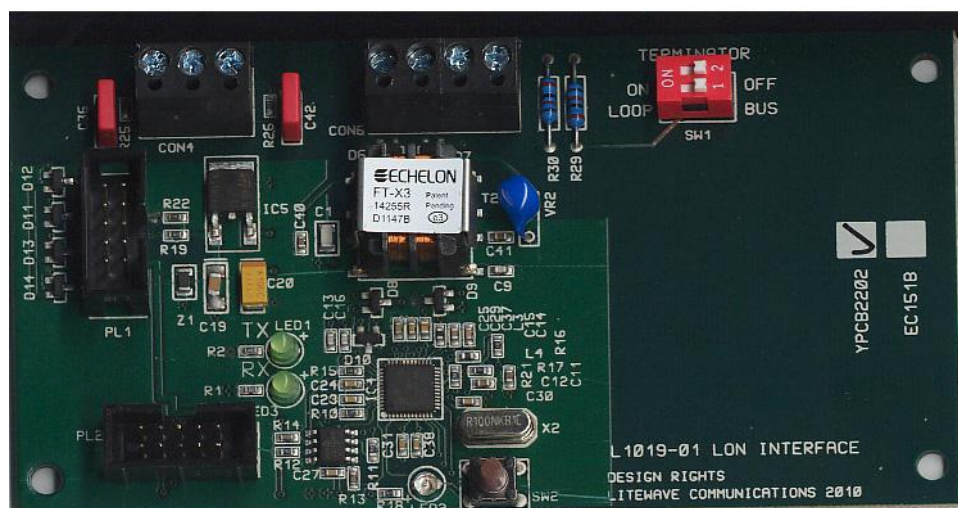
To allow the fire panel network to communicate with a 3rd party Lonworks network, the EC200 BMS interface is available which translates the pre-configured network variable to a set of unconfigured network variable suitable for binding.

LEDs Transmit and receive leds are provided which indicate network activity for diagnostic purposes.

Network Monitoring

The L1019 interfaces can be configured to monitor the network communications so that if the network becomes disconnected at any point, an alarm message will be sent to the panel.

SCREEN TERMINATION NETWORK TERMINALS NETWORK TERMINATION SWITCH



LON TX RX LEDs

Specification

Supply:	5V 35mA
Processor:	Echelon FT5000
Transceiver:	FT-X3
Serial baud rate:	4800bd
Network Termination:	50Ω/102Ω/None (selectable)
Screen termination:	0.1uF in parallel with 470k
Clock speed:	10MHz
Configuration state:	Configured
Indicators:	Lon TX / RX leds, service led
Network Connector:	Weidmuller screw terminals

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