



LC331C-W

Description

The LC331C Integrated Communications Module is an integral part of the IED LANcom SCS that provides basic program distribution and intercom communication functions. The LC331C uses a single CAT5e or better (with RJ45 connector) Ethernet connection for power, control data and digital audio signals In and Out. It receives its power from an IED LANcom SCS Power Injector, typically located in the telecommunications closet. Peripheral devices, such as call switches and loudspeakers are connected using RJ-45 or Phoenix/Euro block terminal connectors.

The built-in microphone and on-board 2 Watt, 25V amplifier provides a single-point solution for room program distribution, bells, and paging as well as full-duplex intercom. Program selection and audio levels are controlled using a web interface on a classroom or staff computer.

The LC331C has two Form C relays. Relay 1 default configuration is for clock synchronization while Relay 2 may be programmed for other functions.

Call-in switches may be connected to provide up to four different functions including normal call, emergency call, and others. Call switches are available with one or two push buttons on a one-gang wall plate.

Mounting Options

The LC331C is available in two styles – wall mount and ceiling. Both fit in deep 3-gang wall boxes. The wall mount version fits in a rectangular oversize 3-gang plate and the ceiling version comes with an 8-inch diameter circular plate to cover the box and its cut-out while hiding any off-square irregularities from the installation.

Features

- Communication Module for Use in IED LANcom SCS
- Integrates Paging, Intercom, and Emergency Systems
- 2 Watt, 25V Amplifier
- Built-In Microphone for Full-Duplex Intercom Function
- Two Relays for Clock Synchronization and Contractor Defined Functions
- Handset for Private Intercom Calls
- Up to Four Call Switch Functions
- Wall or Ceiling Mount Styles; Mounts In a 3-Gang Deep Electrical Box
- Connects to IED LANcom SCS by Ethernet Using CAT5e or better cable with RJ45 connector
- User Interface is PC Based Software for Ease of Use and Installation
- No External Knobs or Switches
- CobraNet Digital Audio for Program Channels and Intercom
- CD Quality Audio for Improved Intelligibility
- Uses IED Power Injection to Provide Required DC Voltage via Ethernet Cable for Operation

Models

LC331C-W	Wall Mount Version in 3-Gang Deep Plate
LC331C-C	Ceiling Mount Version in 3-Gang Deep with 8" Circular Plate

Related Products

LC11CS	Call Switch
LC12DCS	Dual Call Switch
LC21HS	Intercom Handset
LC41PI	48V x 1-port DC Power Injector
LC48MPI	48V x 8-port DC Power Injector
LC3000SW	LANcom SCS Software

Specifications

Mechanical

LC331IC-W

Dimensions 6.75" W x 4.875" H 2.45" D
(171.5mm W x 123.8mm H 62.2mm D)

Mounting Depth 2.38" (60.2mm)

LC331IC-C

Dimensions 8" Diameter x 2.45" D
(203mm Diameter x 62.2mm D)

Mounting Depth 2.38" (60.2mm)

Connectors

Ethernet/PowerRJ-45
CAT-5e or better

Call Switch RJ-45 (x2)
CAT-5 or better

Intercom HandsetRJ-45
CAT-5 or better

Speaker Out, Mute In..... 4-pin Euroblock
Relay Outputs 6-pin Euroblock

Mounting Methods

Wall Installation Oversized 3-gang plate

Ceiling Installation..... 8" diameter plate

Mounting Box..... 3-Gang Deep Box

Recommended Electrical Box Steel City H3BD 3/4 1
box with 3-GC cover

Electrical

Power48 VDC, 1.4A max, provided via Ethernet data cable

Speaker Output

Power 2 watts @ 25 volts

Frequency Response..... 22Hz – 22kHz

S/N 97dB

Handset Output

Maximum Output Level..... +6dBu

Frequency Response..... 22Hz – 22kHz

S/N 102 dB

Relay Outputs

ContactsForm C

Nominal Switching Capacity (resistive load)2A@ 30VDC
0.5A@125VAC

Architect & Engineering Specifications

The Integrated Communications Module (ICM) shall be utilized in classrooms not requiring amplification of the teacher's voice and/or classroom audio sources. The ICM shall be a full-duplex bidirectional audio interface (intercom) with omnidirectional microphone, preamplifier, 2-watt (25-volt output) loudspeaker amplifier and request-to-speak control. The ICM shall provide for selection of one of four program channels and adjustment of the sound level by web-interface and shall provide for bell signals, paging and emergency announcements. Program, paging, bell and all intercom and announcement signals shall have CD-quality audio and shall be distributed to the ICM using CobraNet technology over Ethernet. Two form C relays shall provide clock synchronization or other pre-configured functions. A logic input shall be provided for mute function. The ICM shall mount on a standard 3-gang electrical box. It shall utilize an 8-inch round mounting plate for ceiling installations and an oversized 3-gang plate for wall installations. The ICM shall be powered by the LANcom Power Injector, located within remote telecommunications closets or communications rooms and connected by CAT5e or better cable. Connections to call switches and intercom handsets shall be by RJ-45 type connectors and shall utilize CAT5 or better cable. Connection for loudspeaker, relay outputs and local mute input shall be by Euroblock connectors. The Integrated Communications Module shall be the LANcom LC331IC-W or LC331IC-C.