comnet
Communication Networks

INSTALLATION AND OPERATION MANUAL

COPPERLINE®

CLEK41EOC

COPPERLINE® VALUE KIT: POINT-TO-MULTIPOINT ETHERNET-OVER-COAX EXTENDER

This manual serves the following ComNet Model Numbers:

CLEK41EOC:

1 × CLEL4EOC

4 × CLER1EOC/M

The ComNet Value CLEK41EOC features four remote 10/100 Mbps single-channel units and a single four-channel local unit in a pre-packaged kit. Perfect for applications that face density challenges. The four-channel units will fit into any ComNet product rack. The four individual small-sized remote units can be placed up to 1,200 feet (400 meters) from the four channel local unit. Power supplies included. A DIP Switch allows configurable selection of 10 Mbps or 100 Mbps speed these units are simple to install. This CopperLine® Value kit provides five units with power supplies.

Bi-color (Red/Green) LED indicators are provided for rapidly ascertaining equipment operating status. **Step 5** on **Page 4** describes the LED indicators for each light on the unit.

The CLEL4EOC four channel unit is interchangeable between stand-alone or card mount configurations, or may be DIN-rail mounted by the addition of ComNet model DINBKT1 or DINBKT4 adaptor plate. The CLER1EOC/M mini units are stand-alone, or may be DIN-rail mounted by the addition of ComNet model DINBKT4 adaptor. See **Figures A** and **B** on **Page 5** for mounting instructions.

FIGURE 1 – CLER1EOC/M REMOTE MINI SINGLE CHANNEL COAX UNIT

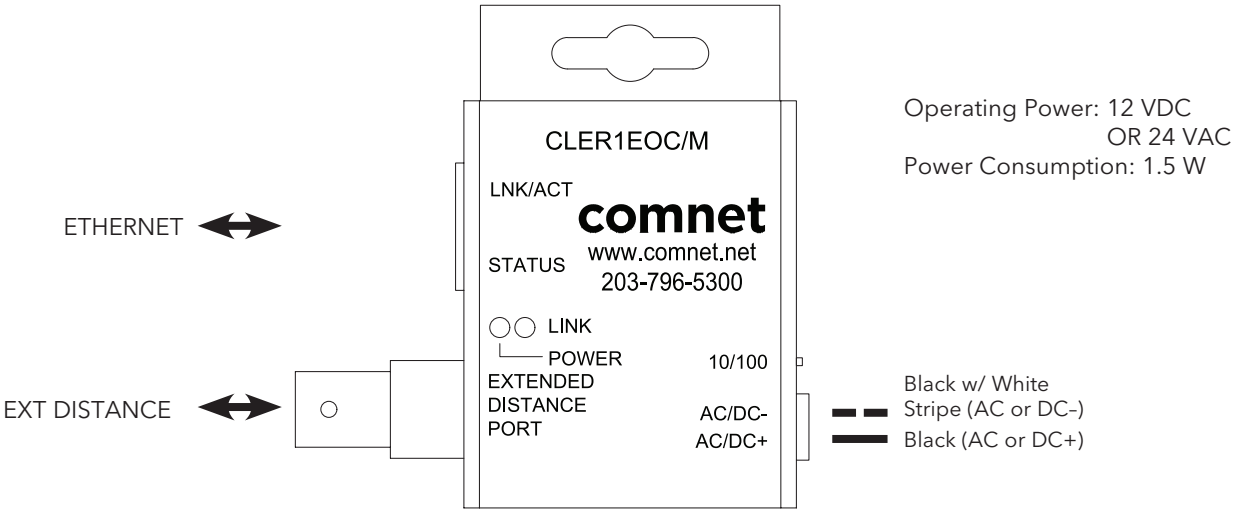
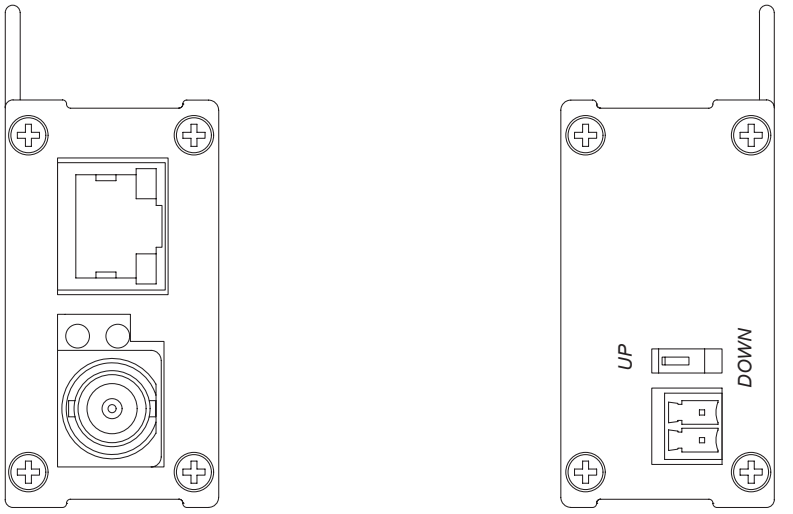


FIGURE 2 – CLER1EOC/M REMOTE MINI SINGLE CHANNEL COAX UNIT



Switch	UP	DOWN
10/100	10 Mbps	100 Mbps

See Installation Instructions for more information

Remote Mini Single Channel Coax Indicating LEDs

	POWER	LINK	Ethernet Link	Ethernet Activity
GREEN	Power Applied	10Mbps	–	Activity Detected
YELLOW	–	100Mbps	Link Established	–
OFF	Power Off	No Link	No Link	No Activity

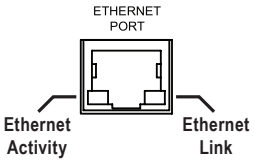
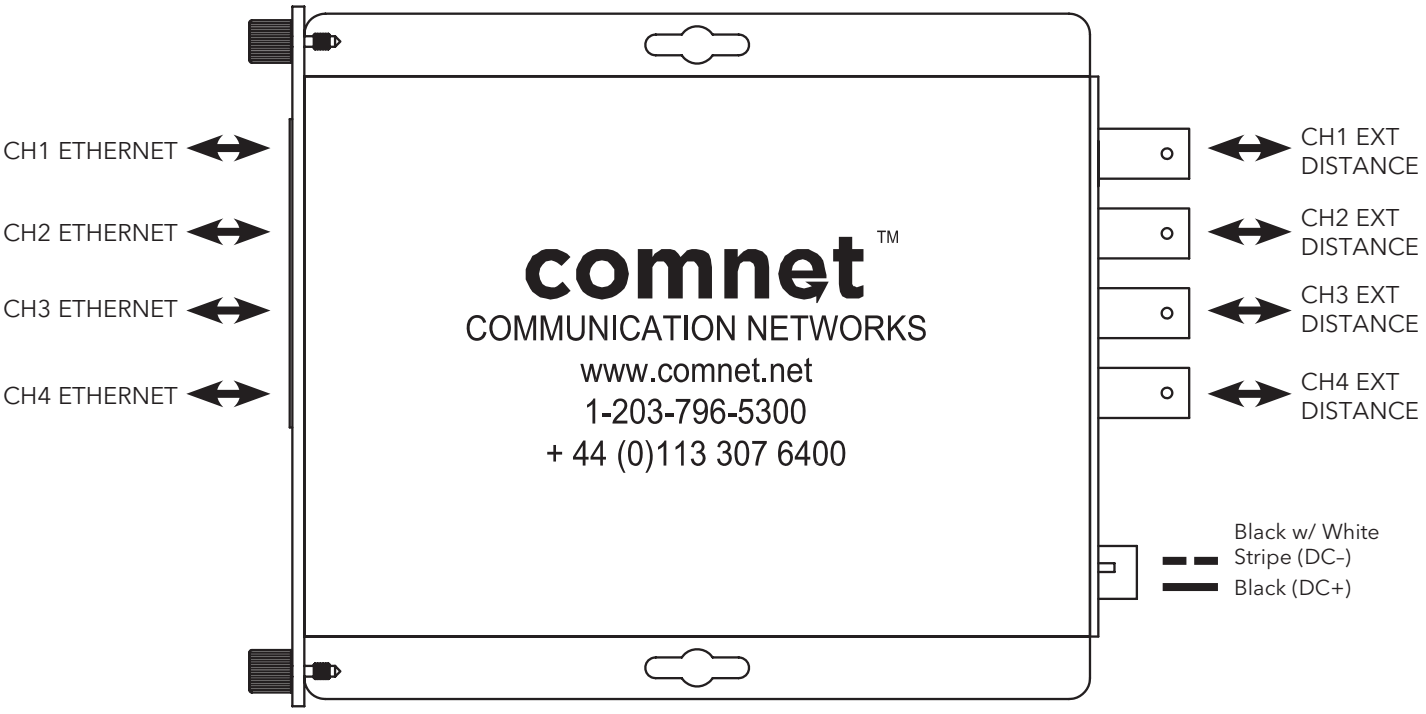
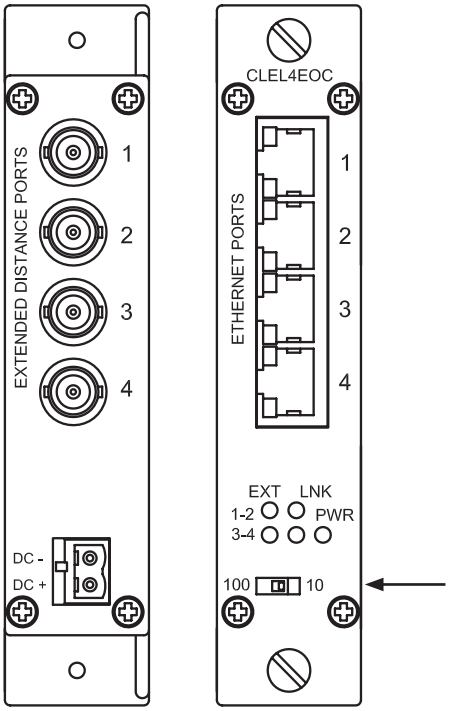


FIGURE 3 – CLFE4EOC LOCAL FOUR CHANNEL SURFACE OR RACK MOUNT COAX UNIT



Operating Power: 9 to 15 VDC
Power Consumption: 5W

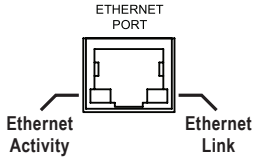
FIGURE 4 – CLFE4EOC LOCAL FOUR CHANNEL SURFACE OR RACK MOUNT COAX UNIT



10/100 data rate DIP switch
See Installation Instructions, Step 1

Indicating LEDs

	PWR	EXT LINK (1 - 4)	Ethernet Link	Ethernet Activity
GREEN	Power Applied	10Mbps	–	Activity Detected
YELLOW	–	100Mbps	Link Established	–
OFF	Power Off	No Link	No Link	No Activity



INSTALLATION INSTRUCTIONS

1 - SET 10/100 SWITCH
Locate the 10/100 data rate DIP switch on the unit.
Set the data rate according to bandwidth required.
NOTE: The data rate must be set the same on both the local and all the remote units.

2 - CONNECT EXTENDED WIRING
Connect Extended Distance Port to field wiring.

3 - CONNECT NETWORK WIRING
Using CAT5/5e, connect Local unit to network and Remote unit to camera.

4 - CONNECT POWER
Connect power to unit per the following table:

Power Connections per Use Case

Unit	Local Power
CLER1EOC/M	12 VDC or 24 VAC
CLEL4EOC	9 to 15 VDC (9 VDC† when in a C1 or C2 rack)

† Contact ComNet pre-sales support, or refer to the appropriate installation and operation manual when configuring and specifying power for a deployment.

5 - VERIFY FUNCTIONALITY
See LED tables and Troubleshooting Guide if corrective action is needed.

TROUBLESHOOTING GUIDE

Problem	Steps to Take
Indicating LEDs not lighting	Check that power is properly applied to the unit
No Communication	Check Ethernet Link LEDs, Extended Link LEDs, All Connections, and 10/100 switches are set properly. Verify that Local units are installed at the head end and that Remote units are installed in the field.
Bad Video	Make sure Data Rate Switch is set properly.

PRODUCT DIMENSIONS

The CLER1EOC/M is supplied as a standalone/surface mount (mini size) module. The CLEL4EOC is supplied as a standalone/surface/rack (ComFit) module.

INSTALLATION CONSIDERATIONS

These units are supplied as Standalone/Rack mounted module. Units should be installed in dry locations protected from extremes of temperature and humidity.

WARNING: Unit is to be used with a Listed Class 2 power supply.

IMPORTANT SAFEGUARDS:

A) Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

B) Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

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FIGURE A

Dimensions are for a mini size module

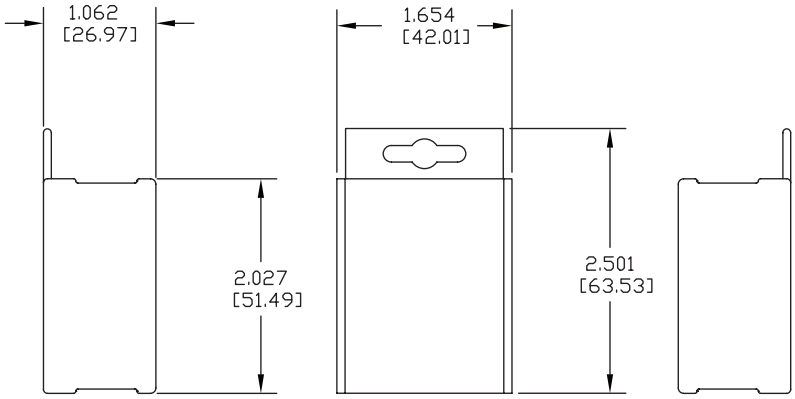
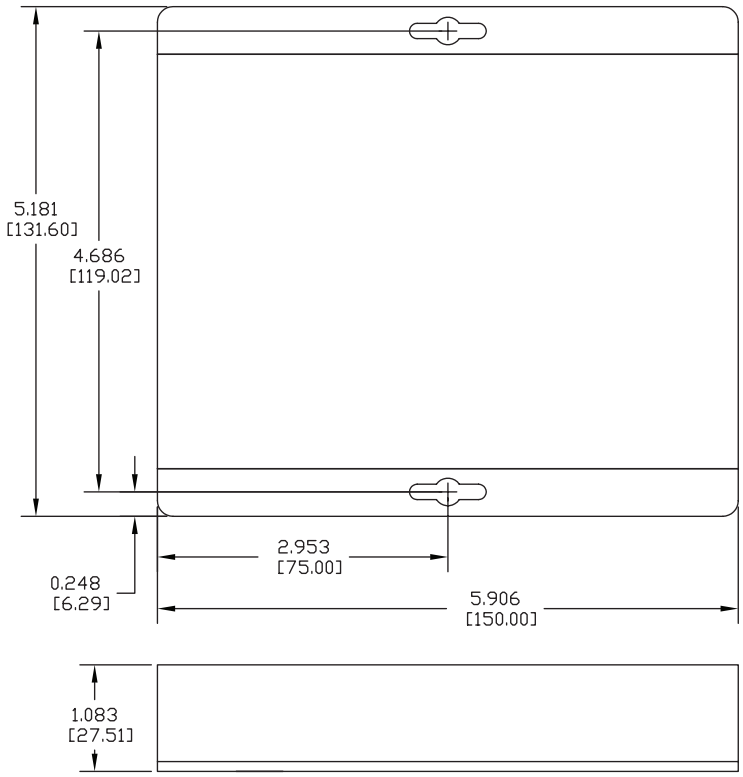


FIGURE B

Dimensions are for a ComFit module



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