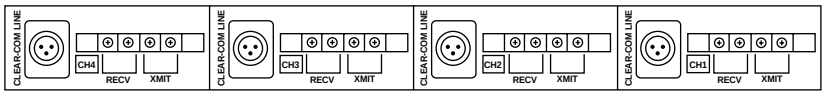
IF4-B Front View



IF4-B Rear View

FEATURES

- ***Modular design provides one to four 4-wire interfaces in one rack space***
- ***Interfaces TV cameras, 2-way radios, fiber-optic circuits, and other devices to Clear-Com party-line intercom***
- ***Each interface has individual transmit, receive, and null controls***
- ***Transmit output switchable between mic and line level, with transmit-level indicator***
- ***Built-in test jack and oscillator enable quick nulling of the transmit/receive hybrid***
- ***Selective party-line capability***
- ***Carbon or dynamic mic emulation***
- ***Accepts balanced or unbalanced 4-wire input***
- ***Transformer isolated***
- ***Terminal block and XLR connectors provided for each interface***
- ***Powered by the Clear-Com line***

DESCRIPTION

The IF4-B modular 4-wire interface connects camera intercoms, two-way radios, fiber optics, and other 4-wire devices to a standard Clear-Com intercom line. The 1-RU chassis holds up to four individual interface modules, each with its own 4-wire terminal block and XLR-3M connector to interface with Clear-Com.

Featuring broadcast-quality circuitry, the unit matches industry-standard 600-ohm transmit/receive lines (at normal levels) to Clear-Com line level. The IF4-B accepts balanced or unbalanced 4-wire input and is transformer isolated. It is powered by the Clear-Com intercom line, using standard two-conductor shielded mic cable.

FRONT PANEL CAPABILITIES

Front-panel controls allow the user to adjust the operating parameters for each interface module, optimizing the interface between the 4-wire device and the party line. Capabilities include: adjusting the transmit and receive levels between the intercom system and the 4-wire line; optimizing the hybrid null balance; switching the transmit level between mic and line level; and emulating either a carbon or a dynamic microphone. A two-color LED transmit-level indicator gives a visual indication of send levels to the transmit lines.

A front-panel test jack is connected to a built-in oscillator. Using the null control and an earphone with a 1/8” plug, the user can quickly null the send/receive hybrid. Set-up switches allow the user to assign the interfaced devices to separate intercom channels, or to assign any or all to a single party line. Once set, the front-panel controls may be concealed with the provided cover plate.

CONNECTIONS

Each interface module has its own set of transformer-isolated connectors. The terminal block provides a pair of connections for both transmit and receive signals, with a 600-ohm load across the receive line. The IF4-B may also be used with older-type 3-wire carbon headset systems. An XLR-3M connector provides the link between the interface and the Clear-Com intercom line.

OPTIONS

The IF4-B may be ordered with either two (IF4-B-2) or four (IF4-B-4) interface modules installed. PC-IF4 interface circuit board kits may also be ordered separately, in order to expand an existing IF4-B. Each kit includes one interface module, standoffs for mounting in the chassis, and all necessary connectors to attach the module to the rear-panel connectors.

SPECIFICATIONS

GENERAL
Frequency Response: 200 Hz - 17 kHz, ±3 dB
Hybrid Null: >40 dB
Distortion: <0.5% THD
Clear Com Line Level: -15 dBv nominal
Line Impedance: 15K Ohms bridging

TRANSMIT
Switchable gain, transformer isolated

LINE OUTPUT
Impedance: 600 Ohms
Level @ 1 kHz * : -25 dB to +10 dB

CARBON MIC OUTPUT
Impedance: Approximately 150 Ohms
Level @ 1 kHz * : -34 dB to +1 dB

DYNAMIC MIC OUTPUT
Impedance: Approximately 120 Ohms
Level @ 1 kHz * : -71 dB to -36 dB

RECEIVE
Transformer Isolated
Level: Adjustable, -30 dB to +10 dB
Impedance: 10K Ohms bridging

CONNECTORS
(4) 3-pin XLR and (4) 4-pin terminal blocks

POWER
DC Voltage: Powered by Clear-Com line
DC Current: 50 mA per module

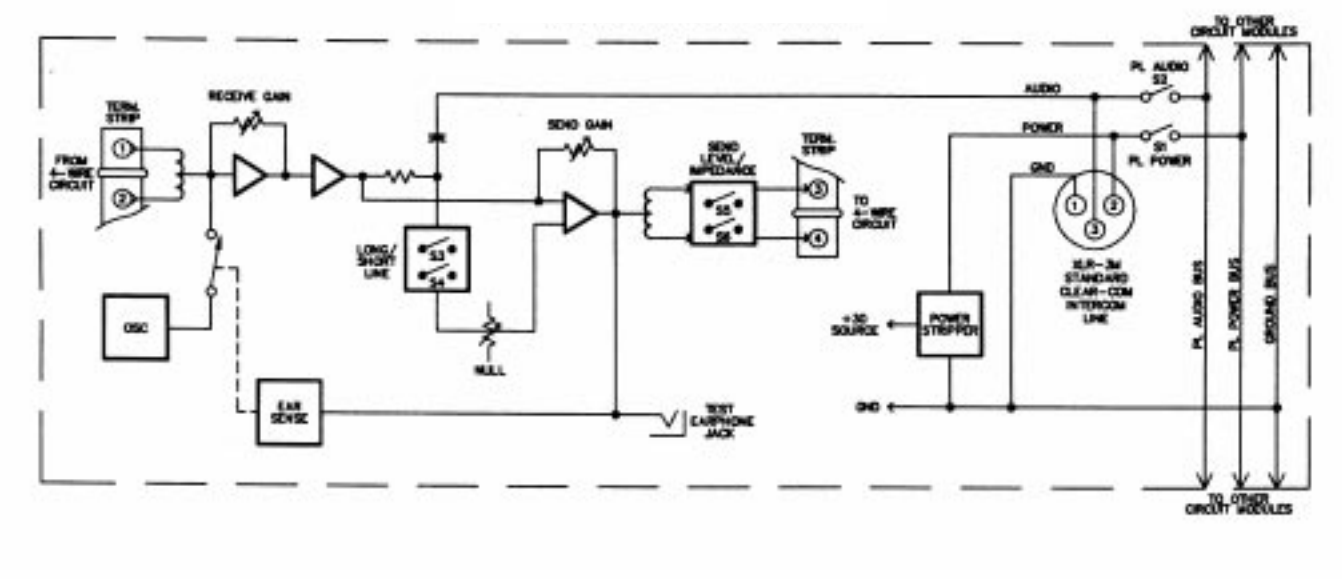
DIMENSIONS
1.75" H x 19" W x 6.8" D
(45 x 487 x 180 mm)

WEIGHT
3.25 lbs (1.47 kg)

** Referenced to -15 dB on the Clear-Com line*

All specifications are subject to change without notice.

1-CHANNEL CIRCUIT MODULE



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