

## PRODUCT SHEET & SPECIFICATIONS

# n.FORM™

# FIBER RECEIVER/TRANSMITTER

MODEL G641 / G642 / G643 / G644



## FUNCTION

This series transmits single direction line level audio, 600 ohms balanced or unbalanced, on one multimode or singlemode fiber. The audio is transmitted over the link using FM modulation which results in an improved signal to noise ratio and a constant audio output level over the full optical loss budget. Diagnostic indicators provide a quick visual check of system status. Designed to be completely transparent, these links require no field adjustments at installation or additional maintenance thereafter.

## FEATURES AND CAPABILITIES

- + 600 Ohm Balanced or Unbalanced Audio.
- + Diagnostics: Power and Optical Presence.
- + No User or installation adjustments.

## MULTIMODE/SINGLEMODE SERIES

- G641- Fiber Transmitter Single Mode
- G642- Fiber Receiver Single Mode
- G643- Fiber Transmitter Multi Mode
- G644- Fiber Receiver Multi Mode

## AUDIO

- + I/O Level @ 600  $\Omega$  - 0 dBm (2.2 Vp-p)
- + I/O Level Max- +12 dBm (8.8 Vp-p)
- + I/O Impedance - 600  $\Omega$
- + Bandwidth- 20 Hz to 20 kHz
- + THD- 1.0 %
- + Signal to Noise- 65 dB
- + Connector - Terminal Block

## OPTICAL

### MultiMode

- + Wavelength - 850 nm
- + I/O Level Max- +12 dBm (8.8 Vp-p)
- + Loss Budget (62.5/125  $\mu$ m fiber)- 20dB + Connector- ST

### SingleMode

- + Wavelength - 1310 nm
- + Loss Budget (9/125  $\mu$ m fiber)- 21dB + Connector - ST

## ENVIRONMENTAL

- + Operating Temp- -40°C to +75°C
- + Storage Temp- -40°C to +85°C
- + Humidity- 0% to 95% (non condensing)
- + MTBF- >100,000 hours

## POWER SUPPLY

- + Module Transmitter- 12 VDC
- + Module Receiver - 12 VDC

## SIZE

- + Module.....25/8" x 53/4" x 13/8"