

Data sheet

102/OR2, 102/OT2 Optical Receiver / Transmitter

Description, Features

The Optical Transmitter (OT2) and Receiver (OR2) modules are designed to convert an AES/EBU datastream (two channels) to an optical format and at the receiver side reconvert the optical format to an electrical, AES/EBU conforming, datastream. The electronics are housed in a small, aluminium case, blue anodized with the ST connector at one end. The XLR and power connectors are connected with short cables to the other end.

The advantages of an optical transmission are:

- No electro static or electro magnetic interferences
- Electrical isolation of sender and receiver
- Higher signal fidelity at the receiver
- Less jitter

The OR2 as well as the OT2 are absolutely transparent to all AES/EBU bits. There is no data conversion involved.

The optical fiber is a glass fiber with standard ST connectors. The fiber with connectors fitted can be purchased at a variety of vendors. The fiber length can be up to one kilometer (3000 feet).

The OR2 and OT2 have to be powered externally. Wall type power supplies are included.

Operation

Connect the power to both OR2 and OT2 and make shure that the optical cable is firmly connected to the OR2 and OT2.

Technical Data

Electrical connector type: XLR (AES/EBU standard)

Optical connector type: ST

Optical fiber type: Glass, multimode, 62.5/125mm or 50/125mm or 100/140 mm

Maximum optical cable length: about 1000m (3000 feet)

OT2 power requirement: 9V to 12V, approx. 100mA

OR2 power requirement: 9V to 12V, approx. 100mA