OT Systems

OTSD110B-MR/SR-N

One Video + Duplex Data Receiver for OTSD110BMicro Transmitter
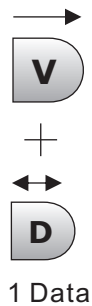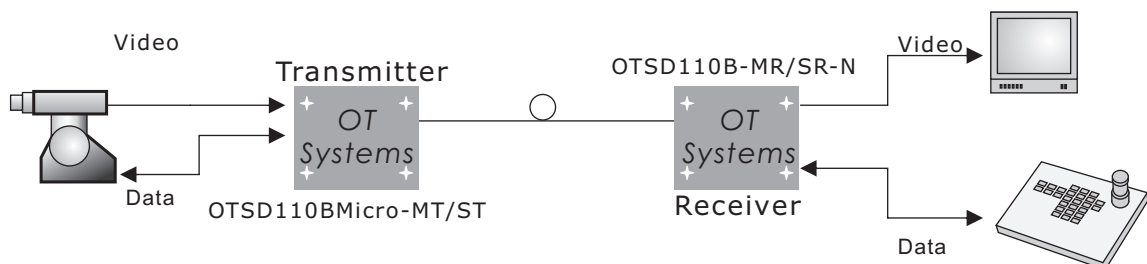
8-bit Digital

OTSD110B-MR/SR-N

Features

- 8-bit digital PCM encoding
- Non-compressed video
- Support full duplex RS422/RS485(4-wire) data format
- Compatible with NTSC, PAL, SECAM
- Standalone or chassis mount structure
- Support hot swappable
- FC or ST optical connector
- Eliminate EMI, RFI and ground loop
- Surface mount technology (SMT)
- High sensitivity
- Signal to noise ratio greater than 61 dB
- Operation status indicated by LED indicators
- Adjustment free
- Compatible with OTSD110BMicro transmitter

V + **D**

1 Data

Typical Application

Video
Transmitter
OT Systems
OTSD110BMicro-MT/ST
Data

OTSD110B-MR/SR-N
Video
OT Systems
Receiver
Data

Product specifications also available at **www.ot-systems.com**
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8-bit Digital

Model Selection Guide

Model		Description	Optical Budget (dB)	Wave-Length (nm)	Maximum Distance (Km)
Multi Mode 62.5/125u	OTSD110B-MR-N	Receiver of one video + one duplex data	23	1310/1550	3
Single Mode 9/125u	OTSD110B-SR-N	Receiver of one video + one duplex data	25	1310/1550	40

Note:

(1) For standalone unit, please add "-SA" as suffix to the model no. ie. OTSD110B-MR-N-SA.
(2) Default optical connector is ST type, please specify if FC type is required.
(3) Each standalone unit comes with a 6VDC or 12VDC power adapter.
(4) Please select power plug from US type, UK type, Eurotype or Australian type when ordering.
(5) Transmission distance may be limited by optical loss of fiber, such as connector loss, splicing loss, and fusion loss.
(6) OT Systems has various types of transmitter and receiver for transmission over longer distance in different optical budget. Please contact us for details.

Specifications

Video

Channel	1
Bandwidth	7.5MHz
Input/Output Impedance	75Ω
Input/Output Amplitude	1.0Vp-p typical
Differential Gain	≤ 1% typical
Differential Phase	≤ 1° typical
SNR	>61dB

Data

Channel	1
Direction	Full duplex
Format	RS422/RS485(4-wire)
Transmission Rate	0~115.2 kbps

MTBF

Mean Time Between Failures (MTBF)	>100,000Hrs

Electrical

Requirement	Standalone: 6VDC or 12VDC Card Module: 6VDC
Power Supplies	Standalone: 6VDC or 12VDC power adapter Card Module: 6VDC power from OTS-C21 EIA 19" 4U Chassis

Physical

Weight (in kg)	0.6
Dimensions H x W x D (in mm)	Standalone: 153 x 24.5 x 216 Card Module: 154 x 20 x 216
Number of slots	One
Compatible Chassis	For Card Module: OTS-C21 EIA 19" 4U Rack Mount Chassis (Purchased separately)

Environmental

Operating Temperature	-40°C~+75°C
Relative Humidity	0~95% non-condensing

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ISO 9001:2000
FM 88638