

# DOTX-2xxx

## Dual HD/SD Optical Transmitter

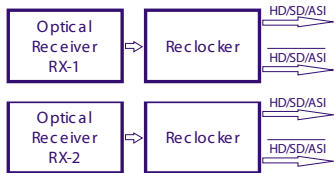
### Features

- High performance & low cost
- Supports HD/SDI & ASI signals
- Dual Optical Outputs
- Re-clocking (270,1438,1485 Mbps) + local loop-through
- LED indicators
- 1310nm operation (other λ upon request)
- Contact closure alarm
- Compact & rugged design 142mm(L) x 82mm(W) x 47mm(H)



### Description

The DOTX-2xxx is a high performance dual optical transmitter capable of supporting HD, SD and ASI. Each channel is independent of rate and data format. Optical links are capable of long distance error free transmission and excellent isolation. External passive optical multiplexers can also be used increase the channel capacity of optical links whilst simultaneously avoiding the problems and limitations associated with TDM multiplexing. Up to 30KM path length is possible when used with the complementary receiver to the DORX-2xxx or OTRX-2xxx receiver. The Optical SFPs are available as the options based on performance and wavelength applications.



### Specifications

#### Electrical Inputs

Number of Inputs	1
Data Rate	270 1483 & 1485 Mbps
Return Loss	>15dB (5MHz – 1.5GHz)
Cable Eq.	0 to 100m Belden 1694A (HD) 0 to 250m Belden 8281A (SD)
Impedance	75 ohm
Connectors	75 ohm BNC female

#### Optical Outputs

Number of Inputs	2
Data Rate	270, 1483 & 1485 Mbps
Wavelength	1310nm operation (other λ upon request)
Optical Power	-2dBm (typical)
Connectors	LC

#### Electrical Outputs

Number of Outputs	2
Signal Level	800mV p-p +/- 100mV
Return Loss	>15dB (5MHz – 1.5GHz)
Impedance	75 ohm
Connectors	75 ohm BNC female

#### Alarm & Control Interface – for each channel

- Loss & Presence LED indicator
- SD/ASI LED indicator
- HD LED indicator
- Auto HD/SD/ASI, HD Only or SD Only selection
- Solid state alarm relay contacts

#### Ordering Information

DOTX-2000	Dual 1310nm Optical TX
DOTX-2010	1310nm & 1550nm Optical TX
DOTX-2012	1310nm & 1550nm Optical TX + CWDM mux
DOTX-2210	1510nm & 1530nm Optical TX
DOTX-2220	1550nm & 1570nm Optical TX

#### Supported Standards

- SMPTE - 259M (270Mbit/s), 292M (1483, 1485Mbit/s)
- DVB-ASI - EN50083-9 (270Mbit/s)

#### Accessories (extra)

- High performance, 110-240V universal input, 12V @1.5A output
- Power lead, SAA approved, 2M, IEC320-C14 connector

#### Compatibility

Compatible with all SBC and third party products supporting digital video interfaces