

DOT-02

Defined I/O Optical Transceiver

Engineered for mid-sized broadcast production houses, the DOT-02 Optical Transceiver delivers broadcast-level specifications for lightweight professional workflows—concerts, compact studios, and e-commerce live streams.

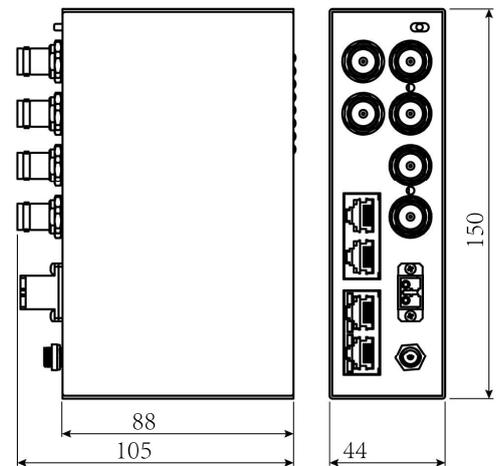
Its compact chassis integrates 2x 12G-SDI (one of which supporting I/O defined), SYNC, RS-422, GPIO and dual Gigabit Ethernet. Offering full-featured reliability at lightweight investment, it meets broadcast standards for budget-conscious professionals.

Feature

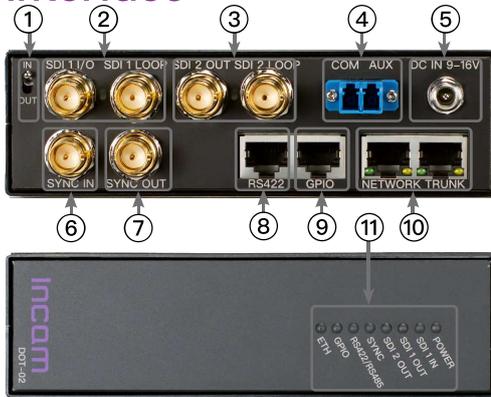
- Portable design, easy to carry and use on site
- 1x Bi-directional 12G-SDI (with I/O switching, downward compatible to 6G/3G/HD/SD/DVB-ASI)
- 1x Unidirectional 12G-SDI (full compatibility as above)
- Video paths with equalization & clock regeneration, compliant with SMPTE ST-2082 pathological test.
- Support SYNC IN with loop, RS-422 (Sony 8-pin protocol compatible), 2x Gigabit Ethernet, bi-directional 2x GPI/O control
- Single-mode fiber with bidirectional CWDM, wide-range DC power supply



Dimension

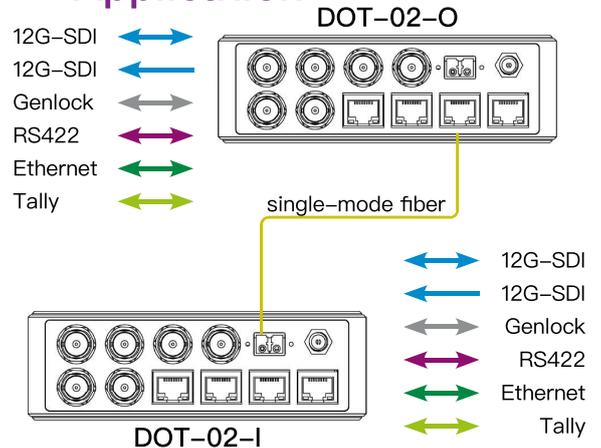


Interface



- 1 SDI 1 IN/OUT switch
- 2 SDI 1 IN/OUT
- 3 SDI 2 IN/OUT
- 4 Fiber COM, AUX
- 5 DC IN
- 6 SYNC IN
- 7 SYNC OUT
- 8 RS-422
- 9 GPIO
- 10 1G Ethernet
- 11 Indicator

Application



Technical Specification

Dimension	Weight	Power	Operating Temperature	Operating Humidity
150x88x44mm (excl. ports)	approx. 450g	9-16VDC 15W	0°C to +40°C	20% to 80%
SDI	Signal Standard	Resistance	Signal Amplitude	Cable Equalization
BNC, reclocking and equalization	SMPTE ST 2082-1, SMPTE ST 2081-1	75Ω	800mV	50m, Belden 4794R
Jitter Align	Jitter Timing	Rising Time	Falling Time	DC offset
0.10UI	0.58UI	38ps	37ps	0V±10mV
Video Input	Video Output	Video loop	SYNC In	SYNC Output
BNC (x2)	BNC (x2)	BNC (x2)	BNC (x1)	BNC (x1)
RS-422	GPIO	Ethernet		
RJ45 (x1)	RJ45 (x1)	RJ45 (x2) 1000M		

*Among them, SDI 1 is a bidirectional switchable transmission channel