

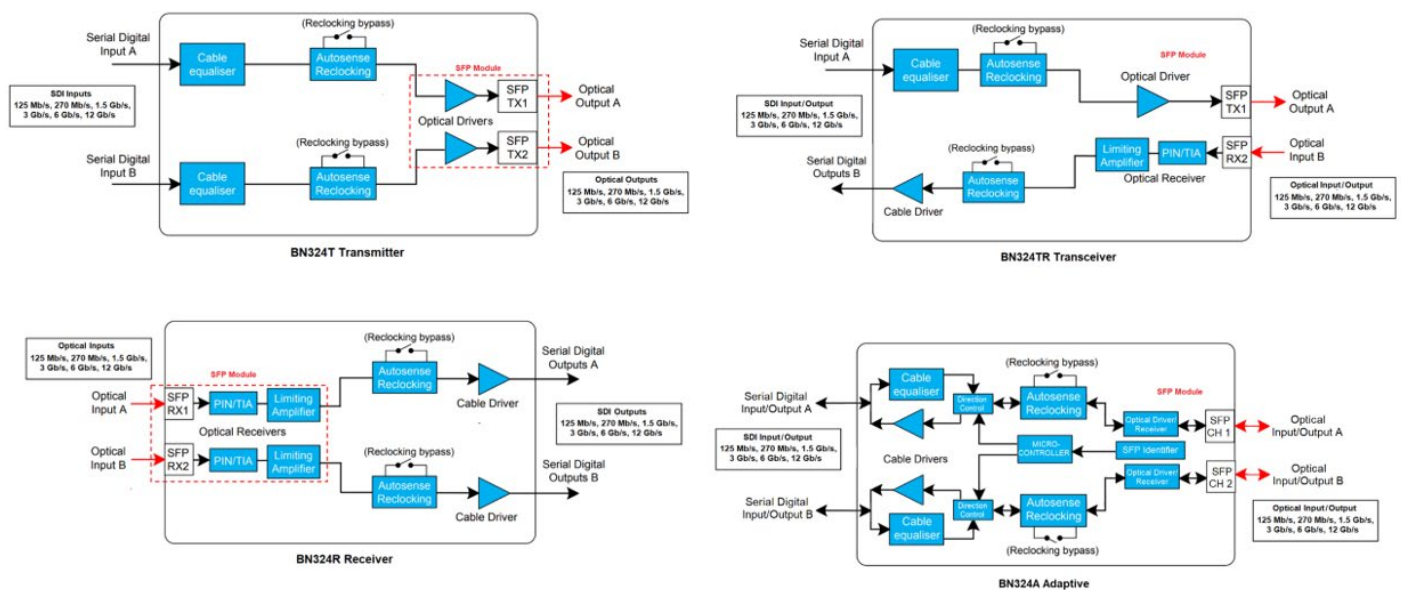
BN324 Series



Description:

- Compact, stand-alone fibre interfaces for OB applications up to 4K.
- Supports SD, HD, 3G, 6G, and 12G-SDI video transmission over fibre-optic cable.
- Two BNC connectors for copper connections; dual SFP cage for optical interface.
- Can also be used for transmitting MADI data.
- **BN324T:** Dual-channel transmitter, dual SDI inputs to dual fibre outputs.
- **BN324R:** Dual-channel receiver, dual fibre inputs to dual SDI outputs.
- **BN324TR:** Dual-channel transceiver, Channel A = transmitter, Channel B = receiver.
- **BN324A:** Adaptive version with empty or customer-specified SFPs; auto-configures as dual TX, dual RX, or transceiver depending on module type.

Schematic diagram:



Specifications

Electrical Input	
Connector	75 Ohm BNC per IEC 60169-8 Amendment 2 per channel
Return Loss	> 15 dB @ 1.485 GHz <-10dB to 3GHz <-7dB to 6GHz <-4dB to 12GHz
Standards	SMPTE ST 2082, SMPTE ST 2081, SMPTE ST 424, SMPTE ST 292, SMPTE ST 259, DVB-ASI
Equalisation	Automatic rate detection and cable equalisation 70m @ 11.88Gbps 90m @ 5.94Gbps 170m @ 2.97Gbps 240m @ 1.485Gbps 400m @ 270Mbps
Electrical Output	
Connector	75 Ohm BNC per IEC 60169-8 Amendment 2
Return loss	<-15dB to 1.485GHz <-10dB to 3GHz <-7dB to 6GHz <-4dB to 12GHz
Standards	SMPTE ST 2082, SMPTE ST 2081, SMPTE ST 424, SMPTE ST 292, SMPTE ST 259, DVB-ASI
Polarity	Non-Inverting
Signal level	800 mV +/- 10%
DC Offset	0 +/- 0.5 V

Optical Output	
Connector	LC/PC
Wavelength	1260-1620 nm
Standards	SMPTE ST 297
Sensitivity @12G	-13dBm (max)
Sensitivity @<=6G	-14dBm (max)
Receiver Overload	-2dBm (min)
Optical Output	
Standards	SMPTE ST 297
Power	1 to -5 dBm
Conformities	
Laser safety	Class 1 Laser compliant according to IEC-60825 Complies with RoHS Directive 2011/65/EU, WEEE Directive
RoHS	2012/19/EU
Connector	XLR4
Voltage	5-17VDC
Power	3W typ
Dimensions (HxWxD)	30 x 64 x 9
Weight	100g
Operating Temp	0 to +70°C

Ordering Information

BN324T/S/12G/13/13	Singlemode Dual Channel 12G/SDI, 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, ASI, HD/SDI, 3G/SDI and 12G/SDI (2x 1310nm). Fitted with LC connectors. Includes PS12 power supply
BN324T/12G/S/CWDM	Singlemode Dual Channel 12G/SDI, 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, ASI, HD/SDI, 3G/SDI and 12G/SDI (CWDM). Fitted with LC connectors. Includes PS12 power supply.
BN324R/S/12G	Singlemode Dual Channel 12G/SDI, 3G/SDI, HD/SDI Fibre Optic Receiver Module with Dual Outputs, Auto-Sensing for SDI, ASI, HD/SDI, 3G/SDI and 12G/SDI. Fitted with LC connectors. Includes PS12 power supply.
BN324TR/S/12G	Singlemode 12G/SDI, 3G/SDI, HD/SDI Fibre Optic Transeiver Module 12G/SDI/3G/SDI. Fitted with LC connectors. Includes PS12 power supply
BN324T	Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Transmitter Module, Auto-Sensing for SDI, ASI, HD/SDI, 3G/SDI and 12G/SDI (1310nm). No Optics Fitted. Includes PS12 power supply
BN324R	Singlemode Dual Channel 3G/SDI, HD/SDI Fibre Optic Receiver Module, Auto-Sensing for SDI, ASI, HD/SDI, 3G/SDI and 12G/SDI. No Optics Fitted. Includes PS12 power supply.
BN324TR	Singlemode 12G/SDI, 3G/SDI, HD/SDI Fibre Optic Transeiver Module 12G/SDI/3G/SDI. No Optics Fitted. Includes PS12 power supply.
BN324A	Singlemode Adaptive 12G/SDI, 3G/SDI, HD/SDI Fibre Optic Transeiver Module 12G/SDI/3G/SDI. Includes PS12 power supply. No Optics Fitted



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