BN328 - Quad 12G and Ethernet over Fibre

- Compact stand-alone fibre interfaces designed for remote video applications up to 8K.
- Support transport of four independent SDI signals (SD, HD, 3G, 6G, 12G) plus 1–2 Gigabit Ethernet streams over a single fibre up to 20 km.
- Ideal for remote 8K cameras with quad 12G outputs and Ethernet control, or any application needing multi-signal + data transport.
- Features optical expansion port for cascading with a second BN328 or other optical source to double fibre capacity.
- Connections include 4x BNC for SDI, 1–2x RJ45 for Ethernet, and dual LC optical connector for fibre.
- Variants:
- BN328T – Quad SDI + Ethernet to LC fibre output
- BN328R – LC fibre input to Quad SDI + Ethernet outputs
- BN328TD – Quad SDI + dual Ethernet to LC fibre output
- BN328RD – LC fibre input to Quad SDI + dual Ethernet outputs

The BN328 Series is a versatile range of compact, stand-alone fibre-optic interfaces designed for remote video applications up to 8K resolution. It supports the transport of up to four independent SDI video signals across SD, HD, 3G, 6G, and 12G formats, along with one or two Gigabit Ethernet data streams, over a single fibre link at distances of up to 20 km. This makes the BN328 ideal for quad-12G 8K cameras with Ethernet control, as well as other applications requiring reliable long-distance transport of multiple SDI signals and control data.

To meet the demands of live production environments, the BN328 features integrated SDI reclocking on all video paths to maintain signal integrity and minimise jitter over extended distances. Power is supplied via a robust 4-pin XLR DC input, and the unit is housed in a compact, weatherproof enclosure, making it suitable for outdoor, OB, and remote deployments. Connectivity includes four BNC connectors for SDI video, one or two RJ45 Ethernet ports, and a dual LC optical interface. An optical expansion (EXP) port allows High Band (1470–1610 nm) and Low Band (1270–1410 nm) units to be cascaded, effectively doubling capacity to transport up to eight 12G-SDI signals and four Gigabit Ethernet streams over a single fibre, with additional optical signals supported on unused wavelengths.

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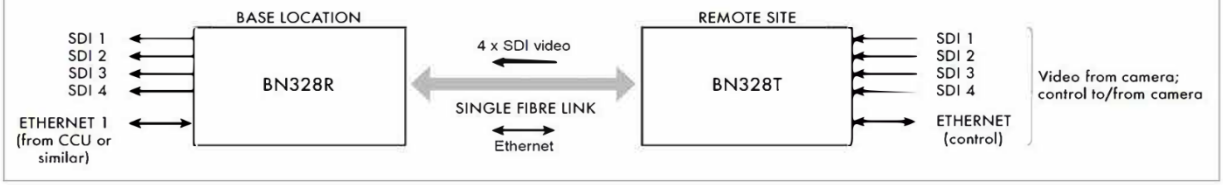
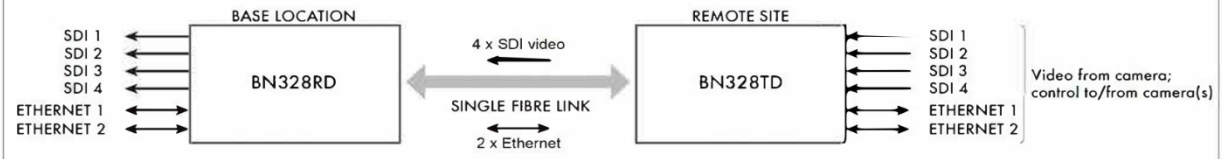
Configuration

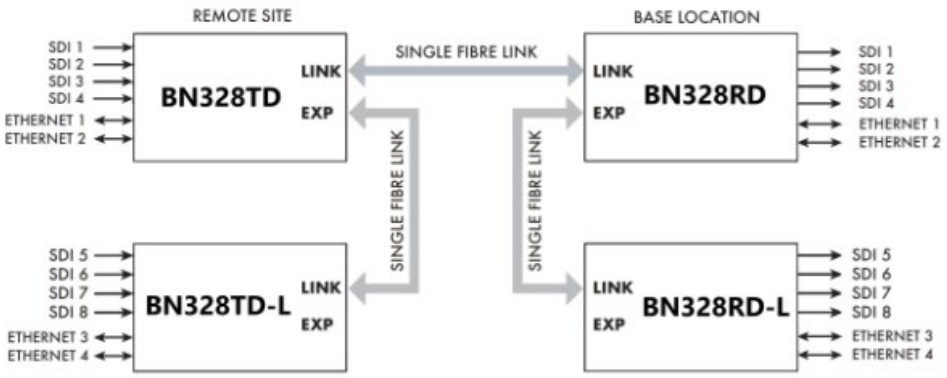
Quad SDI and single Ethernet variants: BN328R and BN328T:



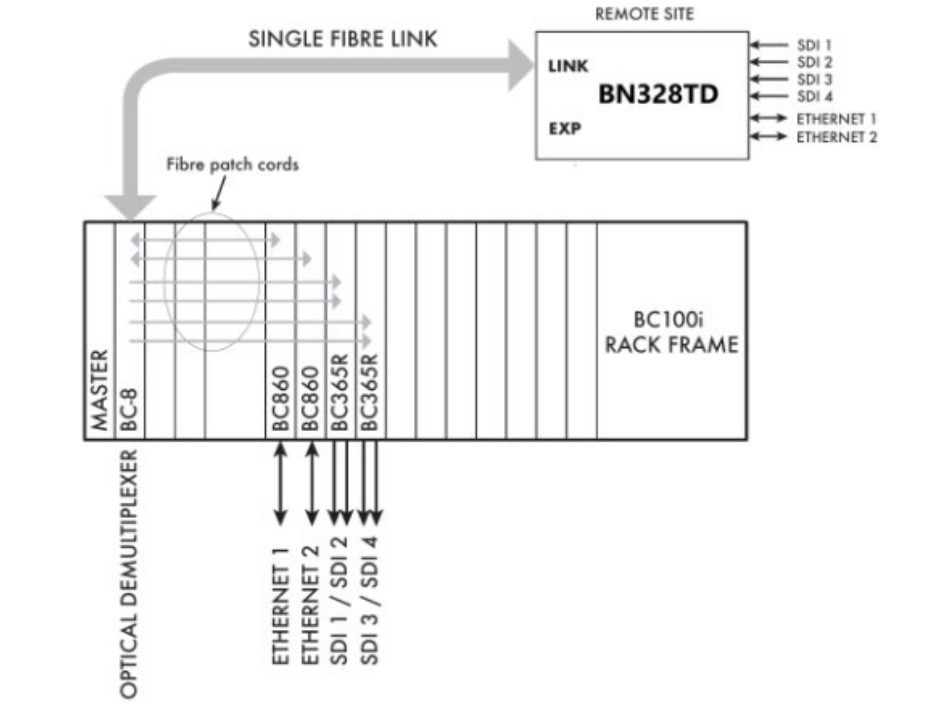
Quad SDI and dual Ethernet variants: BN328RD and BN328TD:



Example using the Expansion Port



Example with Rack Mounting Systems



Ordering Information

High Band Optical Wavelengths in the range 1470 to 1610nm	
BN328T (Transmitter)	Quad 12G/6G/3G/HD/SD-SDI Inputs plus Single Ethernet to LC fibre with expansion port. Power Supply (PS12) included.
BN328R (Receiver)	Quad 12G/6G/3G/HD/SD-SDI Outputs plus Single Ethernet to LC fibre with expansion port. Power Supply (PS12) included
BN328TD (Transmitter)	Quad 12G/6G/3G/HD/SD-SDI Inputs plus Dual Ethernet to LC fibre with expansion port. Power Supply (PS12) included.
BN328RD (Receiver)	Quad 12G/6G/3G/HD/SD-SDI Outputs plus Dual Ethernet to LC fibre with expansion port. Power Supply (PS12) included.
Low Band Optical Wavelengths in the range 1270 to 1410nm	
BN328T-L (Transmitter)	Quad 12G/6G/3G/HD/SD-SDI Inputs plus Single Ethernet to LC fibre with expansion port. Power Supply (PS12) included.
BN328R-L (Receiver)	Quad 12G/6G/3G/HD/SD-SDI Outputs plus Single Ethernet to LC fibre with expansion port. Power Supply (PS12) included.
BN328TD-L Transmitter	Quad 12G/6G/3G/HD/SD-SDI Inputs plus Dual Ethernet to LC fibre with expansion port. Power Supply (PS12) included.
BN328RD-L Receiver	Quad 12G/6G/3G/HD/SD-SDI Outputs plus Dual Ethernet to LC fibre with expansion port. Power Supply (PS12) included.

Bluebell

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