3406 Optical SFP Series

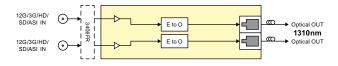
12G/3G/HD/SD/ASI EO/OE/OO SFPs

The 3406 series SFPs are used in 3406FR–HDBNC mounting frames, supporting optical transmit, receive or regenerator functions. Reclocked versions support standard SMPTE rates for 12G/3G/HD/SD/ASI signals.

Optical Transmitter SFPs

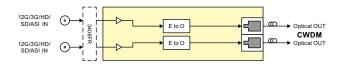
3406T13-2-12G

Dual-channel SFP optical transmitter with standard 1319nm lasers.



3406Txx/yy-2-12G

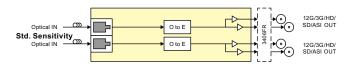
Dual-channel SFP optical transmitter with CWDM lasers.



Optical Receiver SFPs

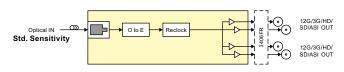
3406R-2-12G

Dual-channel SFP optical receiver, dual electrical outputs per optical input.



3406R-DA4R-12G

Single-channel SFP optical receiver, single optical input with 4x electrical outputs.





Features & Benefits

- Reclocked with support for 12G, 3G, HD, SD and ASI
- Supports standard SMPTE rates for 12G/3G/HD/SD/ASI signals
- XX versions include the following wavelength channels:
 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61
- XX/YY versions include the following wavelength channels: 27/29, 31/33, 35/37, 39/41, 43/45, 47/49, 51/53, 55/57, 59/61

3406 Optical SFP Series

12G/3G/HD/SD/ASI EO/OE/OO SFPs



Specifications

Optical Output:

Number: Up to 2x per SFP Connector LC/UPC Compatible with Fiber: single mode

Optical Power:

-2dBm ± 1dBm Standard 1310nm: CWDM: -1dBm ± 1dBm Wavelength: Standard: 1310nm

CWDM: 1270-1610nm, ITU-T G.694.2 compliant

Optical Input:

Up to 2x per SFP LC/UPC Number: Connector: Fiber: Compatible with single mode Operating Wavelength:

1270–1610nm Max. Input Power: -1dBm

Optical Sensitivity: -12dBm at 11.88Gb/s

Electrical Inputs:

Reclocked Standards

SMPTE ST 2082 (12Gb/s), ST 424M (3Gb/s), ST 292M (1.5Gb/s), ST 259M (270Mb/s).

DVB-ASI Connector: HD-BNC Impedence: 75Ω (nominal) Automatic to Equalization:

20m @ 12Gb/s, 80m @ 3Gb/s, 100m @1.5Gb/s, 250m @ 270Mb/s (with Belden 1694A or equivalent cable)

Return Loss: > 15dB up to 1.5GHz,

> 10dB up to 3GHz

Electrical Outputs: Connector: HD-BNC Impedence: 75Ω (nominal) Signal Level: 800mV (nominal) DC Offset: 0V ± 0.5V

Rise and Fall Time:

12G: < 50ps 3G/HD: < 135ps SD: < 900ps Overshoot:

< 10% of amplitude > 15dB up to 1.5GHz, Return Loss: > 10dB up to 3GHz

< 0.2UI to 1.485Gb/s, < 0.3UI to 2.97Gb/s, Alignment Jitter: < 0.3UI to 11.88Gb/s

Physical:

Form Factor: SFP

Compliance:

Laser Safety: Class 1 laser product, complies with 24 CFR

1040.10 and 1040.11, IEC 60825-1

EMI/RFI: Complies with FCC

part 15, Class A; complies with EU EMC directives

Ordering Information

3406T13-2-12G Dual Channel 12G-SDI SFP Optical Transmitter with standard 1310nm lasers

3406Txx/vv-2-12G Dual Channel 12G-SDI Optical Transmitter SFP with CWDM lasers for 3406FR-HDBNC

Dual channel 12G-SDI SFP Optical Receiver 3406R-2-12G

3406R-DA4R-12G Single channel 12G-SDI SFP Optical Receiver with 4 Reclocked Outputs for 3406FR-HDBNC

Enclosures:

3406FR-HDBNC Fiber optic SFP frame with HD-BNC type connectors plus 4 SFP slots for additional conversion

Note: XX versions include the following wavelength channels: 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61;

XX/YY versions include the following wavelength channels: 27/29, 31/33, 35/37, 39/41, 43/45, 47/49, 51/53, 55/57, 59/61.

See CWDM wavelength ordering information.

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