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1-output YEDFA optical amplifier with WDM

1550 nm, Po 19dBm

The module amplifies the 1550 nm optical signal producing an optical output power of 19dBm. Equipped with WDM, it has one 1310 nm/1490 nm-input that multiplex the amplified 1550 nm-signal, providing one 1310 nm/1490 nm/1550 nm-output to be used in a GPON headend (usually OLT512).

Based on YEDFA (Erbium and ytterbium doped fibre) technology, it provides a high gain, a higher optical power, and a low noise factor.

Ref.234221

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Highlights

- Equipped with WDM for the multiplexing of RF Overlay with GPON signals
- -10 dBm to +10 dBm input range
- Status LED indicators

Main features

- Optical amplification for the RF service over fibre (RF Overlay) on GPON networks
- Suitable for long distances
- SC/APC connectors

Technical specifications

Optical	Number of ports		1 RF Overlay @ Optical IN 1 GPON @ Optical DATA 1 (GPON + RF Overlay) @ Optical OUT (COM)
	Operating wavelength	nm	1310 ± 20 @ Upstream 1490 ± 20 @ Downstream 1530 ... 1565 @ RF Overlay
	Input RF overlay	dBm	-10 ... +10
	Output power RF overlay	dBm	19
	Noise figure	dB	5 (Pin= 0 dBm @ 1550 nm)
	Insertion loss (1310 & 1490nm)	dB	<1
	Return loss	dB	>40
	C/N	dB	51
	CSO	dB	>65
	CTB	dB	>65
General	Power supply voltage	Vdc	24
	Max. current consumption	mA~	250
	Max. power consumption	W	6
	Optical connector	Type	SC/APC
	Operating temperature	°C / °F	-5 ... + 45 / + 23 ... + 113
	IP code	IP	20