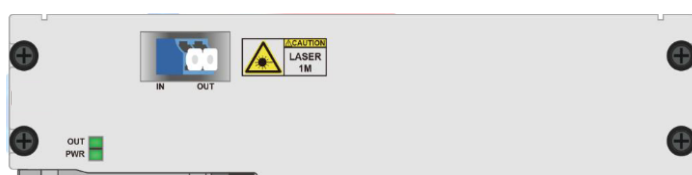


X86-DRA14B

Xenopt Raman amplifier, C-band, Backward Raman, gain 10dB, FC/UPC



APPLICATIONS

Very Long distance amplification without additional intermediate amplification locations

Signal amplification for long distance communication for coherent transmission

Low noise preamplifier used before EDFA amplifiers (B)

FEATURES

Low noise amplification (N=0dB)

Performs distributed amplification in same fiber that carry optical data signals

DESCRIPTION

X86-DRA10F is an advanced optical amplification module based on distributed Raman technology. This device enhances signal strength by leveraging Raman scattering within quartz fiber, using laser sources in the 14xx nm range to energize C-band optical signals. The biggest feature is low noise amplification.

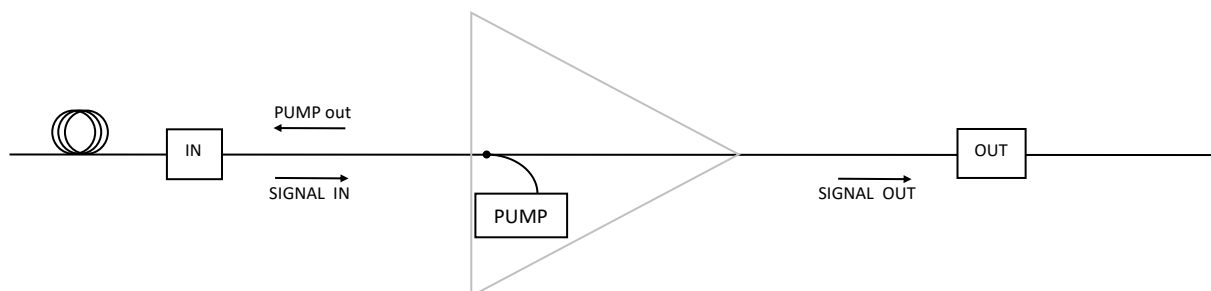
By applying this technique, the amplifier effectively offsets signal degradation across extended fiber runs, allowing for longer transmission distances while enhancing optical signal-to-noise ratio (OSNR). This makes it a strong fit for long-haul optical communication networks that demand high-quality signal integrity.

Key Functional Modes:

- Pre-Amplification (PRE-OA)
- Post-Amplification (BOOST-OA)

FUNCTIONAL STRUCTURE

DRA — RAB



RA Backward—Preamp

PRODUCT SPECIFICATION

Model	RAB				
Parameter	Minimum	Normal Value	Maximum	Unit	Remark
Working Wavelength	1528		1565	Nm	
Input optical power	-36		-10	dBm	
Effective gain	12	14	15	dB	@G.652 optical fiber > 40km, attenuation coefficient 0.20dB/km
Gain flatness			2.2	dB	@Gain=14
Pump wavelength		1423~1465		Nm	@Each pump can be set to 500mw Total 2 pumps
Noise figure			0	dB	
Input optical power threshold	-38			dBm	Configurable
Number of slots occupied					2 slots (support all X86 chassis)

Notes

For accurate order specification please contact XenOpt reseller before placing an order. The content of this document is subject to change without notice. XenOpt does not guarantee errorless or outdated information.

COMPANY INFORMATION

XENYA d.o.o.
Celovška cesta 172
1000 Ljubljana, SI

CONTACT INFORMATION

info@xenia.si
+386 (0)1 514 06 10
www.xenopt.com

PARTNER INFORMATION

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