NETWORK AMPLIFICATION

Compact Raman and remote-amplifier pump modules

Co-pump, counter-pump and remote-gain pumping options for long optical links.

Applications to discuss: Optical network integration; Fibre-link engineering.

Selection points
850 mW maximum pump output / 1500-1568 nm signal passband / 82 dB or 85 dB supervisory budgets

Configuration options

Configuration	Maximum output power	Supervisory-channel wavelength	Supervisory-channel optical budget
Raman co-pump	≤850 mW	1574 nm	82 dB
Raman counter-pump	≤850 mW	1574 nm	82 dB
Remote-amplifier pump	≤850 mW	1610 nm	85 dB

Each row is a separate configuration. Limits from different rows must not be combined.

Technical details

Parameter	Specification or condition
Signal passband	1500 - 1568 nm
C-band signal insertion loss	2.5 dB
Degree of polarization	4%
Pump-to-line interface	via Front Panel E-2000 PS High Power Connector
Other optical connectors	LC/PC

Integration and delivery

Item	Configuration detail
Control	Automatic power control, web interface and SNMP
Monitoring	Fibre-integrity monitoring with shutdown/restart features

Conditions and configuration notes

• A value in dBm describes optical power; a value in dB describes gain, loss or an optical budget. A link budget is not a distance in kilometres.

• Performance depends on channel loading, fibre losses and the selected operating point; family limits do not automatically apply together.