

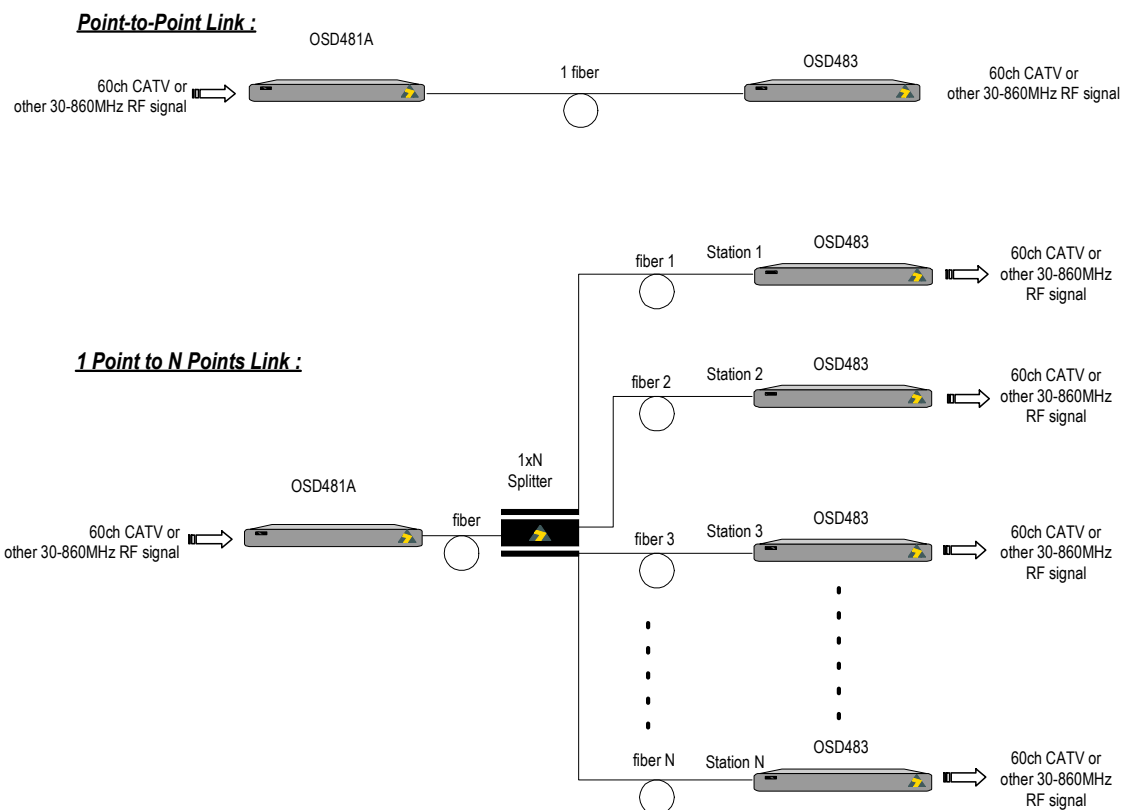
APPLICATIONS

- ▲ CATV networking
- ▲ MATV networks for resorts, hospitals
- ▲ Secure reticulation of television and data in defence and government sites and campuses
- ▲ Distance learning
- ▲ UHF/VHF radio links
- ▲ Very wideband multiple channel data transmission

FEATURES AND BENEFITS

- ▲ Available to support 60 channel networks
- ▲ Operates over from 5 to at least 50km of singlemode cable depending on the laser employed in the OSD481A transmitter modem
- ▲ Can support star networks with up to 16 remote nodes
- ▲ Optionally available in a form suitable to RF over fiber signal distribution
- ▲ Very cost effective - you pay only for what you really need

TYPICAL APPLICATION DESIGN



ORDERING INFORMATION

OSD481A/G1	3mW transmitter	OSD483A	20mW transmitter
OSD481A/G2	6mW transmitter	Option RF	50Ω input/output impedance with Type N connector
OSD481A/G3	12mW transmitter		
OSD481A/G4	20mW transmitter		



SPECIFICATIONS

OSD481A TRANSMITTER

Electrical Interface	90dBuV/channel nominal into 75Ω, channels to be within ± 1.0dB of each other
RF Input Level Control	User adjustable over 30dB range in 2dB increments
Transmission Bandwidth	30MHz - 900MHz ± 1dB
Optical Wavelength	1310 ± 20nm with 1550nm and CWDM wavelengths optionally available. Contact OSD for details
Optical Output Level	+4.8 to +5.4dBm with grade 1 laser +7.8 to 8.4dBm with grade 2 laser +10.8 to 11.4dBm with grade 3 laser +13.0 to +13.6dBm with grade 4 laser
Channel Loading	60 PAL-B channels (4% typical modulation index)
Indicators and Alarm Contacts	Power RF signal present Laser alarm

OSD483A RECEIVER

Operating Wavelength	1250 – 1600nm
Output Level	90dBuV nominal/channel, output attenuator set to minimum, 4% modulation index, -5dBm optical input level
Receiver Bandwidth	30 - 860MHz ± 2dB (in conjunction with OSD481A)
RF Output Level Control	User adjustable over 30dB range in 2dB increments
Carrier to Noise Ratio	>53dB at a receive power level of -2dBm with 60 PAL-B channels from a OSD481/G3 transmitter
Receive Saturation	>2dBm
Indicators and Alarm Contacts	Power Optical power present RF signal present

PHYSICAL

RF Connector	F type (N type for Option RF)
Optical Connector	SC/APC
Alarm Connector	9 pin female D
Operating Temperature	-20 to +55°C
Relative Humidity	0 to 95% non-condensing
Power Requirements	115/230VAC ± 15% 47-63Hz @ 40VA OR -40 to -56VDC @ 40VA
Weight	3kg
Dimensions (mm)	432W x 210D x 44H (1RU, 19 rack mounting)