COMTECH

COMTECH's headend downstream optical transmitters

Optional front or rear optical connection and SC/APC or EURO2000 optical connector

Headend ⟹ **NODE**

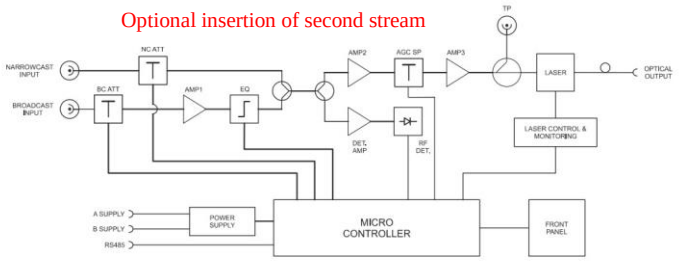
FOT-A 1310nm DFB cooled laser

FOT-A302	FOT-A304	FOT-A306	FOT-A308	FOT-A310	FOT-A313	FOT-A316	FOT-A320	FOT-A325	FOT-A331
2,5mW 4dBm	4mW 6dBm	6mW 8dBm	8mW 9dBm	10mW 10dBm	13mW 11dBm	16mW 12dBm	20mW 13dBm	25mW 14dBm	31mW 15dBm
47-1218 MHz									
Transmitting spectrum with large number of analogue channels In situations where high-degree of parameters' stability is requiered									
Application up to 50km									

FOT-B 1310nm DFB uncooled laser

FOT-B302	FOT-B303	FOT-B304	FOT-B308	FOT-B310
2mW 3dBm	3mW 5dBm	4mW 6dBm	8mW 9dBm	10mW 10dBm
47-1218 MHz				
Transmitting spectrum with pure QAM signals or just with few analogue channels Recommended in air-conditioned environment!				
Application up to 35km				

Optional insertion of second stream



FOT-C CWDM O Band

ITU	Wavelength
29	1291 nm
31	**1311 nm (Recommended type)**
33	**1331 nm (Recommended type)**
35	**1351 nm (Recommended type)**
37	1371 nm

FOT-C304	FOT-C306	FOT-C308	FOT-C310	FOT-C313	FOT-C316	FOT-C320
4mW 6dBm	6mW 8dBm	8mW 9dBm	10mW 10dBm	13mW 11dBm	16mW 12dBm	20mW 13dBm
47-1218 MHz						
Transmitting maximum 5 different channels on one fibre						
Application 5-30km						

FOT-D DWDM C Band

HFC; FTTH RF-Overlay; RFoG applications

ITU	Wavelength
21	1560.61 nm
22	**1559.79 nm (Recommended)**
24	**1558.17 nm (Recommended)**
26	**1556.56 nm (Recommended)**
28	**1554.94 nm (Recommended)**
33	1550.92 nm
39	1546.12 nm
48	1538.98 nm
52	1535.82 nm
54	1534.25 nm
60	1529.55 nm
62	1527.99 nm

FOT-D514	**>44dB MER**
14mW 11,5dBm	
47-1218 MHz	**Application up to 100km**
SBS limit 16 dBm	
Transmitting 8-16 different channels on one fibre	
In all applications when EDFA is required	

On request other ITU channels are available, alltogether 72 types from the 100GHz raster.



COMTECH előre-irányú optikai adó modulja
FOT-x

Comtech's optical transmitters

FOT-E DWDM C Band

Built-in EDFA! On request with 2-way, with 4-way optical splitter or without splitter

ITU	Wavelengths
21	1560.61 nm
22	**1559.79 nm (Recommended)**
24	**1558.17 nm (Recommended)**
26	**1556.56 nm (Recommended)**
28	**1554.94 nm (Recommended)**
33	1550.92 nm
39	1546.12 nm
48	1538.98 nm
52	1535.82 nm
54	1534.25 nm
60	1529.55 nm
62	1527.99 nm

Number of output ports
- 1 port (without splitter)
- 2 ports
- 4 ports

Available optical power per port
- 10 mW (10 dBm) – 1 port
- 50mW (17 dBm) – 1 port
- 2x50 mW (2x17 dBm) – 2 ports
- 4x50 mW (4x17 dBm) – 4 ports

FOT-E5	
47-1218 MHz	**>44dB MER**
	Dispersion-compension up to 25km
HFC, RFoG and FttH RF overlay applications	

COMTECH headend, return path optical receivers

NODE ⟶ Headennd

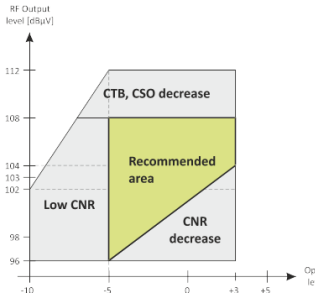
DROR 2 optical receiver	QROR 4 optical receiver
-16…..+3dBm	-16…..+3dBm
1280-1620nm	1280-1620nm
5-200MHz	5-200MHz
105 dBµV @ 10% OMI	
Typical equivalent input noise current is lower than 4 [pA/√Hz]	
Up to 8 CWDM wavelengths /optical connectors!	



COMTECH headend, forward path optical receiver

Headend ⟶ Headend (HOST)

SFOR 1 optical receiver; 1 high level output
Input optical power: -10…..+3dBm
Wavelength: 1280-1620nm
RF output: 92-112 dBuV
RF frequency range: 47-1218 MHz
Adjustable TILT range 0-16dB, 0,5dB steps
Front or rear optical interface
Optional redundancy







OCM 2012



OCM 2002

COMTECH EDFAS

OAE Optical amplifier for one ITU channel

- Input wavelength range [nm] 1528…1564
- Optical input power [dBm] -10…+6
- Optical output power [dBm] 10...25
- Gain for 1 optical channel
- Redundant power supply
- AC230V, DC48V
- Optical connectors: SC/APC, LC/APC, EURO2000



Number of outputs

- 1 outputs
- 4 outputs

OAEM Optical amplifier for several ITU channels

- Input wavelength range [nm] 1540…1563
- Optical input power [dBm] -10…+10
- Optical output power [dBm] 33...41
- Gain for 1...8 optical channel
- Redundant power supply
- AC230V, DC48V
- Optical connectors SC/APC, LC/APC, EURO2000



Number of outputs

- 16 outputs
- 32 outputs
- 64 outputs
- 128 outputs