CWDM 3-port OADM

1-channel add/drop · Single-mode · For splicing

PRODUCT OVERVIEW

GLOBALfiber GF-OADM1C-XX-09 is a passive, single-channel CWDM optical add/drop multiplexer. A thin-film filter adds or drops one selected wavelength while allowing other channels to pass. SMF-28e fiber and a sealed steel housing support installation in splice closures, street cabinets and indoor optical systems.

KEY FEATURES

Three optical ports; thin-film-filter (TFF) technology; no power supply required; compact steel housing; low insertion loss and polarization dependent loss; wide operating temperature range.

APPLICATIONS

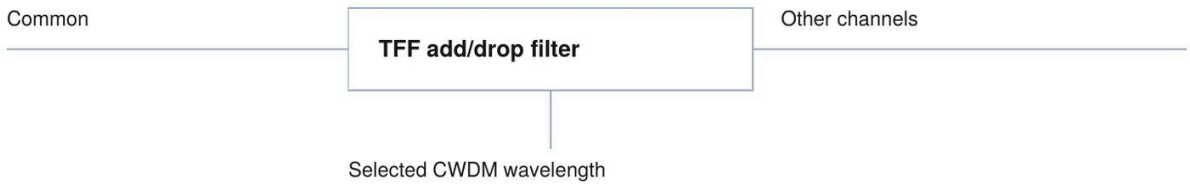
CWDM metro and access networks; enterprise optical backbones; fiber capacity expansion; single-wavelength add/drop; long-distance and high-density WDM transport; outdoor cabinets and splice closures.

KEY SPECIFICATIONS

Form factor	3-port CWDM OADM
Add/drop channels	1 selected wavelength per module
Technology	Thin Film Filter (TFF)
Fiber	Single-mode SMF-28e
Termination	For splicing
Channel spacing	20 nm (ITU CWDM grid)
Wavelength range, Technical info	1270-1610 nm
Available wavelength variants	18 options: 1271-1611 nm; see ordering table
Package dimensions	5.5 × 34 mm; steel housing
Power supply	Passive; no electrical power required

RECOMMENDED OPERATING CONDITIONS

Parameter	Specification
Operating temperature	-40 °C to +85 °C
Storage temperature	-40 °C to +85 °C



Functional illustration - not a port-identification drawing

OPTICAL CHARACTERISTICS

Parameter	Specification
Passband width	= ±7.5 nm
Passband ripple	≤0.3 dB
Reflection band ripple	≤0.2 dB
Insertion loss, passband	≤0.60 dB
Insertion loss, reflection	≤0.40 dB
Adjacent-channel isolation	≥30 dB
Non-adjacent-channel isolation	≥50 dB
Reflection isolation	≥15 dB
Polarization dependent loss (PDL)	≤0.1 dB
Polarization mode dispersion (PMD)	≤0.2 ps
Thermal stability	≤0.005 nm/°C
Directivity	≥50 dB
Return loss	≥45 dB
Optical power handling	≤500 mW

DIAGNOSTICS AND MANAGEMENT

Passive optical component; electronic diagnostics and management are not specified.

SAFETY AND REGULATORY

Specific safety or regulatory certifications are not stated in Technical info.

ORDERING INFORMATION AND ALL WAVELENGTH OPTIONS

Product number: GF-OADM1C-XX-09. Select one wavelength per module.

1271 nm	**1391 nm**	**1511 nm**
1291 nm	1411 nm	1531 nm
1311 nm	1431 nm	1551 nm
1331 nm	1451 nm	1571 nm
1351 nm	1471 nm	1591 nm
1371 nm	1491 nm	1611 nm

GENERAL NOTES

The variant selector lists 1271-1611 nm, whereas Technical info states 1270-1610 nm. Both are retained; confirm the selected center wavelength. Equality signs in the optical specifications are reproduced as published, without assuming minimum or maximum limits. Variant-specific part numbers are not inferred.

Subject to change without notice. For more information visit globalfiber.no.