

## High Capacity Fiber Optic Solutions

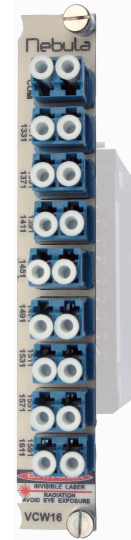
Part Number **V-CWDM16**

### Applications

- CWDM overlay onto existing fiber-optic infrastructure
- Single-fiber and dual-fiber CWDM optical multiplexing

### Features

- Low loss
- Supports standard and extended CWDM bands
- Cost effective



### Optical Specifications

Parameter	Min	Max	Unit	Notes
Optical Operating Wavelength	1304	1620	nm	
Add/Drop CWDM Wavelengths	1311	1611	nm	20 nm Steps
Pass Band Width	-6.5	+6.5	nm	
Add/Drop Port Insertion Loss		3.5	dB	
Adjacent Channel Isolation	30		dB	COM -> Add/Drop
Non-Adj. Channel Isolation	40		dB	COM -> Add/Drop
Thermal Stability		0.005	dB/°C	
Thermal Drift		5	pm/°C	
Directivity Add/Drop Port	50		dB	
Return Loss all ports	45		dB	
Polarization Dependant Loss		0.1	dB	
Polarization Mode Dispersion		0.1	dB	
Power Handling		300	mW	

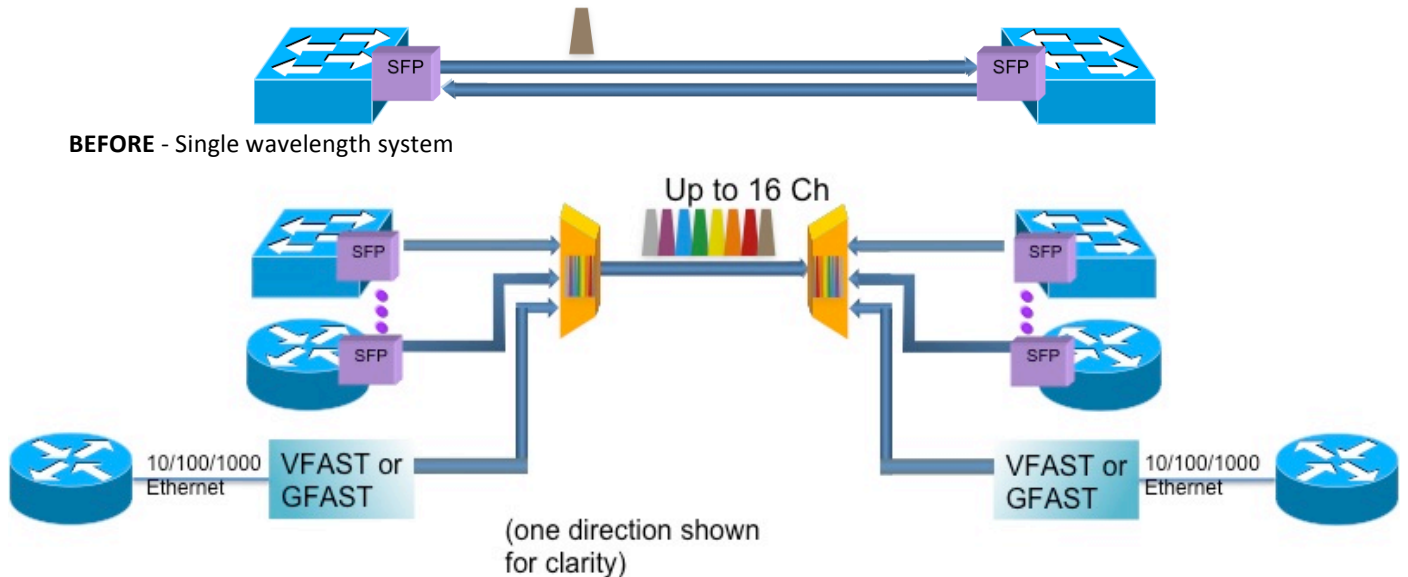
### Environmental Characteristics

Parameter	Min	Max	Unit	Notes
Storage Temperature Range	-40	+85	°C	
Operating Temperature Range	0	+70	°C	Within spec. Device will not be not damaged unless Storage Temp Range exceeded.

### Connectorization

Ports	Connector
Common	LC
CWDM Add/Drop	LC

## Application Example



**AFTER** - Multiple wavelengths over a fiber pair to increase system capacity

## Wavelength Multiplexer Compatibility Chart

ch Code	Wavelength	Compatible Multiplexers						
Standard Band		V-ADM1-C-ch	V-CWDM16	V-CWDM8	V-CWDM4	V-4WM	V-CWDM14	V-CWDM17
61	1611 nm	V-ADM1-C-61	√	√			√	√ <sup>(1)</sup>
59	1591 nm	V-ADM1-C-59	√	√			√	√ <sup>(1)</sup>
57	1571 nm	V-ADM1-C-57	√	√	√		√	√
55	1551 nm	V-ADM1-C-51	√	√	√	√ <sup>(2)</sup>	√	√
53	1531 nm	V-ADM1-C-53	√	√	√		√	√
51	1511 nm	V-ADM1-C-51	√	√	√		√	√
49	1491 nm	V-ADM1-C-49	√	√		√	√	√
47	1471 nm	V-ADM1-C-47	√	√		√	√	√
Extended Band								
45	1451 nm	V-ADM1-E-45	√				√	√
43	1431 nm	V-ADM1-E-43	√				√	√
41	1411 nm	V-ADM1-E-41	√				√	√
39	1391 nm	V-ADM1-E-39	√				√	√
37	1371 nm	V-ADM1-E-37	√				√	√
35	1351 nm	V-ADM1-E-35	√				√ <sup>(3)</sup>	√
33	1331 nm	V-ADM1-E-33	√				√ <sup>(3)</sup>	√
31	1311 nm	V-ADM1-E-31	√				√ <sup>(3)</sup>	√
29	1291 nm	V-ADM1-E-29					√ <sup>(3)</sup>	
27	1271 nm	V-ADM1-E-27					√ <sup>(3)</sup>	

(1) 1591 nm and 1611 nm are combined in one channel in this multiplexer.

(2) V-4WM supports wide 1550 lasers. 1511 nm to 1591 nm CWDM lasers all fit within this bandwidth.

(3) V – CWDM14 support wide 1310 legacy lasers, or a concatenated DWDM mux to support 5 extended DWDM SFP+ 10 Gbps wavelengths