

# WaveReady™ Dispersion Compensation Module

## WRDCM-20/30/40/50/60



### Key Features

- Compensates standard single-mode optical fiber (G.652)
- Compact, WaveReady single-slot size
- Compatible with C-Band DWDM optical channels
- Low end-to-end insertion loss
- Variety of compensation lengths

### Applications

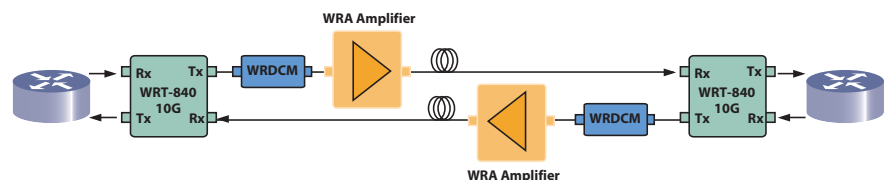
- Provides dispersion compensation for extended reach applications
- Provides pre- and post-compensation
- Provides single- or multi-channel dispersion compensation

### Compliance

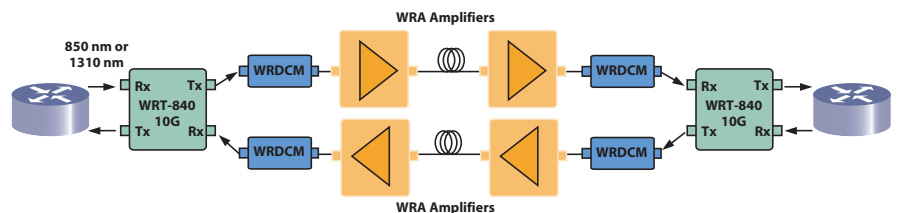
- GR-63-CORE
- GR-2854-Core and GR-1221-Core UL
- RoHS (exemptions 7b, 8a)

The WaveReady Dispersion Compensation Module (WRDCM) provides negative dispersion for dense wavelength division multiplexing (DWDM) transmission systems and can be used to compensate dispersion on standard single-mode optical fiber (SMF) across the entire C-Band. The small form factor (SFF) of the WRDCM enables extended DWDM transmission in a very small footprint. When combined with WaveReady transponders and amplifiers, the WRDCM provides a simple, reliable, and cost-effective DWDM transport solution.

The WRDCM-20, -30, and -40 are specifically targeted for link pre-compensation and may be used before a booster amplifier. The WRDCM-20, -30, -40, -50, and -60 may be used for inline compensation or for post-preamp applications. The WRDCM can support single- or multi-channel (C-Band) applications at both 2.5 and 10 G line rates.



Sample Application: Pre-compensation only



Sample Application: Pre- and Post-compensation

## Specifications

Product	WRDCM-20	WRDCM-30	WRDCM-40	WRDCM-50	WRDCM-60
Optical Characteristics					
Insertion Loss (dB) <sup>1</sup>	2.7	3.3	4.0	4.3	5.4
Dispersion ±2% (ps/nm) <sup>2</sup>	−325	−487	−650	−812	−974
PMD (ps)	0.29	0.36	0.42	0.45	0.51
Physical Characteristics					
Size (W x H x D)	25.4 x 223 x 175 mm (1 x 6.89 x 8.8 in)				
Optical connectors and fiber type (all ports)	LC/PC bulkhead				
Weight	0.36 kg (0.76 lb)				
Environmental Characteristics	<i>Min</i>			<i>Max</i>	
Operating ambient temperature	−5°C			55°C	
Storage temperature	−40°C			85°C	
Relative humidity (non-condensing)	5%			95%	

<sup>1</sup> Specified for 1530-1565 nm

<sup>2</sup> Measured at 1550 nm

## Ordering Information

For more information on this or other products and their availability, please contact your local JDSU account manager or JDSU directly at 1-800-498-JDSU (5378) in North America and +800-5378-JDSU worldwide or via e-mail at [customer.service@jdsu.com](mailto:customer.service@jdsu.com).

Product Code	Description
WRDCM-20	20 km Dispersion compensation module
WRDCM-30	30 km Dispersion compensation module
WRDCM-40	40 km Dispersion compensation module
WRDCM-50	50 km Dispersion compensation module
WRDCM-60	60 km Dispersion compensation module