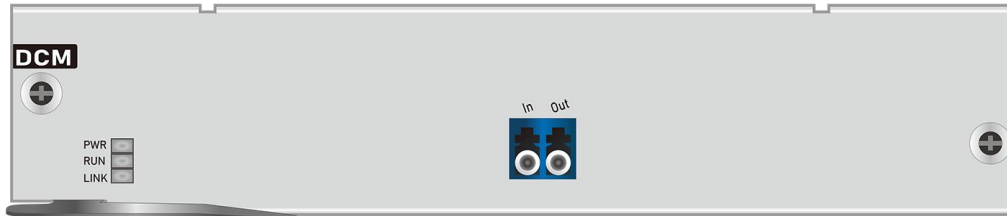


Dispersion Compensation Module (DCM)

The Dispersion Compensation Modules are building blocks of the HT6000 Optical Transport System and serve at optical communication nodes to correct the pulse spread phenomenon known as Chromatic Dispersion that reduces the maximal transmission distance of data in optical fibers.



Function

- Dispersion compensation in long haul WDM networks

Highlight

- DWDM system dispersion compensation and broadband low residual dispersion
- G.652 fiber C-band 100% slope compensation (standard value)
- Low insertion loss
- Low polarization mode dispersion
- Hot swappable
- Low power consumption
- Support for 10/40/100/200/400Gbps
- C-Band Range

HTF optical compensation function with slope dispersion compensation for standard single-mode fiber can DCM (G.652) were dispersion and dispersion slope compensation broad band in the C-band, allowing the system to optimize residual dispersion.

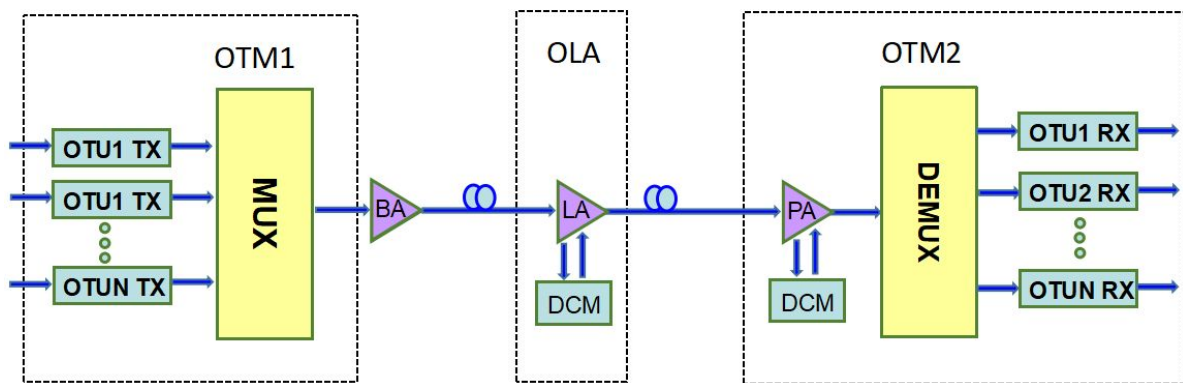
In the dispersion compensation value of 1545nm wavelength dispersion can reach -2070ps /nm.

The DCMs offer a high dispersion compensation level and a very low insertion loss penalty. They provide negative dispersion compensation over the full C-Band with possible distance extensions of up to 80 kilometers.

Performance Parameter

Parameter		Min.	Max.
Brillouin Scattering Threshold (dBm)		6	-
Non-linear Coefficient (n^2/A_{eff}) (W^{-1})		-	1.4×10^{-9}
Effective Area (A_{eff})@1550nm (μm^2)		20	-
Maximum Input Power (dBm)			23
Dimension (mm)		191 (W) x 253 (D) x 42 (H)	
Environment	Operating Temperature ($^{\circ}C$)	-10 $^{\circ}C$ ~ +60	
	Storage Temperature ($^{\circ}C$)	-40 $^{\circ}C$ ~ +85	
	Relative Humidity	5%~95% Non-condensing	

Application Example



Ordering Information

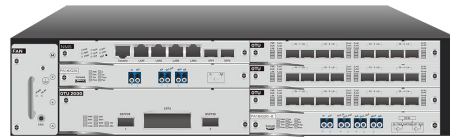
Parameter	DCM-20	DCM-40	DCM-60	DCM-80	DCM-100	DCM-120
Compensated Distance (km)	20	40	60	80	100	120
1545nm Dispersion (ps/nm)	-340+/-10	-670+/-20	-1000+/-30	-1340+/-40	-1680+/-50	-2010+/-60
1545nm Relative Dispersion Slope (nm ⁻¹)	0.0036 +/- 10%					
Insertion Loss (dB)	≤3.3	≤4.7	≤6.4	≤8.0	≤9.5	≤11.0
Insertion Loss (typ) (dB)	2.7	4.0	5.4	6.7	8.0	9.3
Polarization Mode Dispersion (ps)	≤0.6	≤0.7	≤0.8	≤0.9	≤1.0	≤1.1
Polarization Mode Dispersion (typ) (ps)	0.2	0.3	0.4	0.5	0.6	0.7
Polarization Dependent Loss (dB)	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1	≤0.1

HT6000 Series Chassis



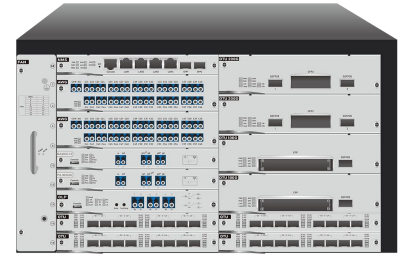
CH04 Chassis

- Standard 1U, 19", 4 slots
- Dual power supply AC/DC optional
- Multiple service card hybrid insertion
- Support 10G/100G /200G hybrid transmission



CH08 Chassis

- Standard 2U, 19", 8 slots
- Dual power supply AC/DC optional
- Multiple service card hybrid insertion
- Support 10G/100G /200G hybrid transmission



CH20 Chassis

- Standard 5U, 19", 20 slots
- Dual power supply AC/DC optional
- Multiple service card hybrid insertion
- Support 10G/100G /200G hybrid transmission

HT6000 Series Chassis is the foundation for deploying and managing the HTF multi-service mixed-media solutions.

HT6000 Series Chassis Optional

CH04 Chassis: 482.5(W) x 350(D) x 44.5(H) mm	1U 19-inch chassis	1 network management slot	3 universal service slots
CH08 Chassis: 482.5(W) x 350(D) x 89(H) mm	2U 19-inch chassis	1 network management slot	7 universal service slots
CH20 Chassis: 482.5(W) x 350(D) x 222.5(H) mm	5U 19-inch chassis	1 network management slot	19 universal service slots
Power Consumption: 1U <120W, 2U<200W, 5U<400W			
Support SNMP, Web, CLI multiple network management modes			
Support dual power supply redundancy protection, Power supply support AC: 220V / DC: -48V optional			

HT6000 Series Chassis support multiple service intermixing:

100G Transponder	100G OEO	4/8/16/40/48 Channel DWDM MUX/DEMUX, or OADM Card
2x100G to 200G Muxponder	25G OEO	4/8/16 Channel CWDM MUX/DEMUX
4x25G to 100G Muxponder	2x10G OCP Transponder	OLP Optical Line Protection
4x10G SFP+ Transponder	8x1.25G Convergence 10G Muxponder	EDFA Card