XCS

Expandable Chassis System

4 Channel Power Meter

1x24 Switch

4 Sources or
2 Variable Attenuators

Features

- FP, DFB, LED and SLED sources
- Sources, switches and attenuators available in SM, PM and MM
- Ultra-low loss switches (< 0.5 dB) and attenuators (< 1.2 dB)
- 2mm InGaAs and integrating sphere free-space detectors

Applications

- General purpose and flexible optical test platform for labs and R&D
- High-volume manufacturing test automation
- Tranceiver and Co-Packaged Optics testing
- Optical alignment
- PM fiber and component testing

Product Overview

Revolutionize your hardware configurations with the XCS Expandable Chassis System, a cutting-edge solution designed to adapt seamlessly to the evolving needs of your optical testing environment. Select and combine sources, attenuators, switches, power meters and more. The innovative chassis modular system allows users to customize, expand, and future-proof their setups with unparalleled flexibility.

Chassis Modular

The XCS uses less benchtop space and reduces cost by eliminating expensive and mostly empty mainframes. It features a chassis modular architecture for easy user reconfiguration and customization of the test platform. Available in various form factors, from compact 1U half racks for expansion of existing systems, to full rack sizes (1U, 2U, 3U or 6U) capable of accommodating multiple modules configured during ordering.

With almost endless available configurations, talk to one of our experts to help design the system best suited to your needs.

Source	Specification		
	FP Laser	DFB	LED
Fiber Type (µm)	9/125	9/125	50/125, 62.5/125 or 105/125
Nominal Wavelengths (nm)	1310 / 1490 / 1550 / 1625	1271 to 1611	850 / 1300
Center Wavelength Accuracy (nm)	< 15	< 3	< 30
Source Bandwidth (nm)	< 10	< 1	> 30
Output Power (typ.) (dBm)	0	0, 10 or 13	-18 @ 850 nm -21 @ 1300 nm

Attenuator	Specification			
	Single-mode			Multimode
Fiber Type (µm)	9/125	Panda PM	HI1060	50/125 or 62.5/125
Wavelength Range (nm)	1200-1700	1200-1700	960-1080	750-1700
Attenuation Range (dB)	60/100		60	60
Insertion Loss (dB)	1.2 / 1.5	1.7 / 2.0	2.5	2.5
Return Loss (dB)	60	55	50	35
PER (dB)[6]	N/A	23	N/A	N/A
Repeatability (dB)	± 0.01			
Absolute Accuracy (dB)	± 0.1			
Maximum Optical Input Power (dBm)	23			
Beam Block (dB)	100			

Switch	Specification			
	Single-mode		Multimode	
Fiber Type	9/125	Panda PM	50/125	62/125
Wavelength Range (nm)	1250-1670		840-1350	
Insertion Loss (dB)	≤0.5	≤1.0	≤0.5	
Backreflection (dB)	≤-60		≤-40	
PER (dB)	N/A	≥23	N/A	
Repeatability (dB)	± 0.005			
Crosstalk (dB)	<-80			
Maximum Input Power (dBm)	23			
Switching Time (ms)	300			

Power Meter	Specification	
	2 mm InGaAs	Integrating sphere (InGaAs)
Wavelength Range (nm)	840 to 1700	
Power Range (dBm)	8 to -80	30 to -50
Uncertainty at Ref Conditions	± 3.7% (840 to 1200 nm) ± 2.7% (1200 to 1650 nm)	
Linearity (dB)	± 0.03 + 20 pW (840 to 1200 nm)	±0.04 + 2 nW (840 to 1200 nm)
	± 0.02 + 5 pW (1200 to 1650 nm)	± 0.04 + 500 pW (1200 to 1650 nm)
Polarization Dependent Responsivity (dB)	0.015	
Averaging Time	50 µs to 1 second	
Analog Output	0 to 2.2 V	
Data Logging	128,000 points per detector	

contact santec for more information