



OX4000 Optical Switches

Optical Switches for Fiber Network Monitoring

VeEX® OX4000 series optical switches provide reliable, fast, and repeatable performance. Units can be controlled via built-in keypad or remotely via RS232 or Ethernet Remote Fiber Test Systems (RFTS).

Platform Highlights

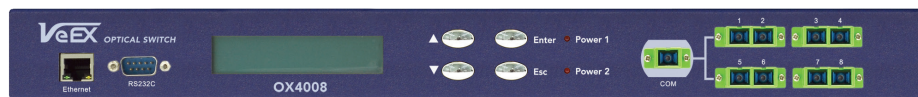
- 1x8, 1x16, 1x24, 1x32, 1x64 and 1x128 configurations
- LCD screen with Auto-off backlight: displays current channel and related information
- RJ45 Ethernet port supports switch admin functions
- RS-232: DB9 communication port for PC connection
- Automatic scanning capability available
- High reliability and lifetime > 100 Million cycles
- High quality, low reflectance SC/APC adaptors
- Dual AC and Dual DC power supply options

Optical Characteristics

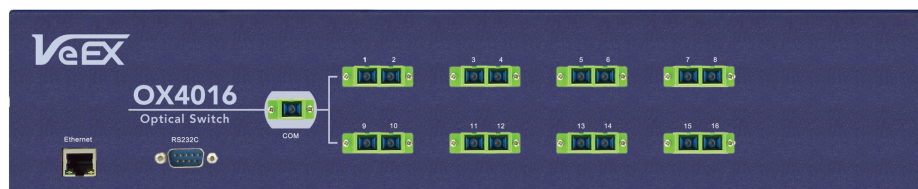
- Low insertion loss, < 1.5 dB typical (< 128 channels)
- Fast switching time, < 10 ms for adjacent channels
- Protocol and bit-rate independent
- Singlemode fiber support
- Wideband wavelength operating range
- Low reflectance and ORL
- 1625 nm and 1650 nm wavelength support for in-service monitoring applications

Optical Port Configurations

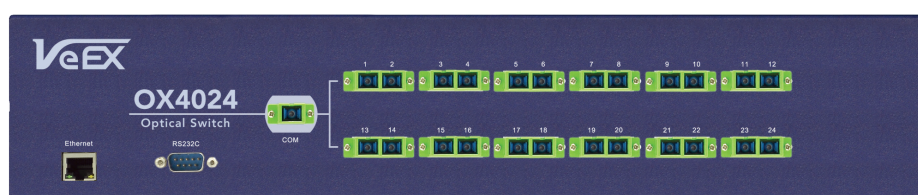
OX4008 (1U)



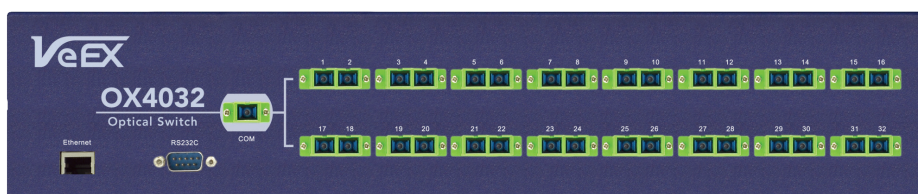
OX4016 (2U)



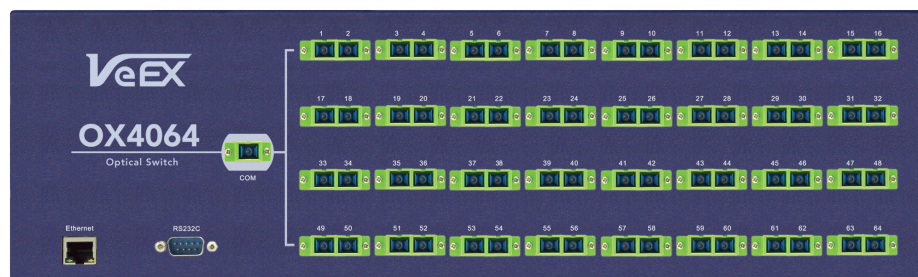
OX4024 (2U)



OX4032 (2U)



OX4064 (3U)



OX4128 (4U)



Specifications

Optical Parameter	OX4008/16/24/32/64	OX4128
Number of channels (1xn)	8/16/24/32/64	128
Operating wavelength (nm)	1260 to 1650	
Test wavelength (nm)	1310 /1550	1550
Insertion loss (dB)	≤ 1.2 dB	< 1.5 (Typ), < 2.0 (Max)
Repeatability (dB)	$\leq \pm 0.05$	$\leq \pm 0.02$
Return loss (dB)	≥ 50	
Crosstalk (dB)	≥ 55	
WDL (dB)	≤ 0.25	
PDL (dB)	≤ 0.05	
Switching time (ms)	≤ 8 (adjacent channels)	≤ 10 (adjacent channels)
Fiber type (μm)	Singlemode, (9/125)	
Reliability	> 100 Million cycles	
Optical Power	< 500 mW	
Connector type	SC/APC	
Monitor/configuration ports	RJ45, RS-232	
AC Power supply: Dual (Volts)	85 to 264 VAC, 50/60 Hz	
DC Power supply: Dual (Volts)	36 to 72 VDC	
Operating temperature ($^{\circ}\text{C}$)	-5 to $+55$	-10 to $+60$
Storage temperature ($^{\circ}\text{C}$)	-40 to $+80$	
Dimensions (mm) OX4008 OX4016/24/32 OX4064 OX4128	483 x 303 x 44 (1U) 483 x 303 x 89 (2U) 483 x 303 x 132 (3U)	483 x 310 x 177 (4U)
Weight (kg) OX4008 OX4016 OX4024/32 OX4064 OX4128	4.7 5.5 6 7	8.5

Ordering Information

Z06-99-095P	OX4008 Optical Switch 1x8 Ports (1U), 1260-1650 nm with Fixed SCAPC Connector
Z06-99-096P	OX4016 Optical Switch 1x16 Ports (2U), 1260-1650 nm with Fixed SCAPC Connector
Z06-99-097P	OX4024 Optical Switch 1x24 Ports (2U), 1260-1650 nm with Fixed SCAPC Connector
Z06-99-098P	OX4032 Optical Switch 1x32 Ports (2U), 1260-1650 nm with Fixed SCAPC Connector
Z06-99-099P	OX4064 Optical Switch 1x64 Ports (3U), 1260-1650 nm with Fixed SCAPC Connector
Z06-99-100P	OX4128 Optical Switch 1x128 Ports (4U), 1260-1650 nm with Fixed SCAPC Connector
Z66-00-189P	OX4000 Power Supply, Dual AC (85-264 VAC)
Z66-00-190P	OX4000 Power Supply, Dual DC (36-72 VDC)