Vixel 5100 v-GLM

For Reliable High-Speed Performance in All Fibre Channel Configurations

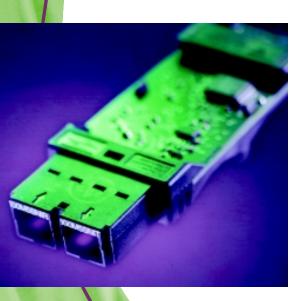
Whether your applications demand high I/O operations per second or pure throughput, the new Vixel 5100 Gigabaud Link Module (GLM) assures superior optical performance and greater reliability. And it is fully interoperable across all components used in Fibre Channel applications.

The Vixel 5100 uses an advanced Vertical Cavity Surface Emitting Laser (VCSEL). The short wavelength GLM operates at a full speed of 1.0625 Gigabaud for Fibre Channel applications. The Vixel 5100 supports continuous, full-duplex communications over multi-mode fiber in a wide range of interconnects.

Vixel manufactures and tests products in key areas of the Fibre Channel SAN interconnect marketplace ensuring compatibility of the Vixel 5100 V-GLM with the broadest possible range of hosts. It is an outstanding performer.

With the industry trend toward an all optical, Non-Open Fibre Control solution for Fibre Channel Arbitrated Loop (FC-AL), the Vixel 5100 makes the best choice for migrating host systems to Fibre Channel. It's fast, reliable and cost-effective.

- Greater reliability and performance from proven Vertical Cavity Laser technology
- More flexible configurations with greater interoperability and interchangeability
- Simplified interconnect interface for full-speed Fibre Channel applications
- More reliable design and improved laser safety using Non-Open Fibre Control protocol
- Complete compliance with Fibre Channel GLM specifications (FCSI – 301-Rev 1.0) and ANSI T11 standards for FC-PH-2



Vixel® 5100 V-GLM

STANDARDS

Storage Temp.:

Fibre Channel Gigabit Link Module (GLM) Specifications:

FCSI-301 Revision 1.0 GLM-S5C2 Fibre Channel ANSI T11 FC-PH-2

ARCHITECTURE	
Data Rate:	1.0625 Gbps, 8B/10B coding
Wavelength:	770–860 nm, Non-OFC
Cable Type:	50/125 μm or; 62.5/125 μm multimode fiber
Connector Type:	Dual SC connector
Distance:	500 meters, 50/125 μm fiber; 300 meters, 62.5/125 μm fiber

	300 meters, 62.3/125 μm fib	TTI
ENVIRONMENTAL	CONDITIONS	Rx
Operating Voltage:	±5.0 Volts	TTI
Voltage Tolerance:	±5%	
Current Icc (typ):	750 mA	A G
Current Icc (max):	825 mA	Uni
Operating Temp.:	0-50 °C	Eur

-40-85 °C

TRANSMITTER CHANNEL		
Spectral Width:	<4 nm RMS	
RIN ₁₂ (max):	<-116 dB/Hz	
Tx Power (max):	-4 dBm, avg*	
Tx Power (min):	-10 dBm, avg*	
Extinction Ratio:	9 dB	
Rise/Fall Time (max):	600 psec	
Deterministic Jitter:	<20% p-p	
Eye Opening:	>57%	

RECEIVER CHANNEL		
Rx Saturation:	0 dBm	
Rx Sensitivity at BER=10 ⁻¹² :	-16 dBm	
Rise/Fall Time (max):	600 psec	
Return Loss:	12 dB	

Tx INPUT INTERFACE 20 bits parallel L:

Rx OUTPUT INTERFACE	
TTL:	20 bits parallel

AGENCY APPROVALS		
United States and Canada:	UL, CSA, FCC, CDRH	
Europe:	TUV PS, CE Mark	

*50/125 µm, 62.5/125 µm fiber, or open bore

Vixel's Complete Fibre Channel Product Portfolio

2100 Zoning Managed Hub



www.vixel.com