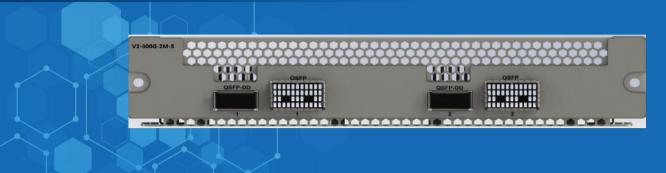# V2-800G Test Module

With the rapid development of big data center, mobile Internet, Internet of Things and cloud computing services,

as well as the widespread promotion and use of AR/VR/UHD video services and other technologies, The demand for data bandwidth of Internet communication is becoming higher and higher. With the soaring use of the Internet,especially the popularity of high bandwidth applications such as video streaming, cloud computing and big data analysis,Data centers and network infrastructure are facing unprecedented growth in data traffic, which requires higher network bandwidth and transmission rates to support. The new wave of AI is leading in advance. The demand for high-speed Ethernet in data centers has exploded. New data center business traffic such as AI big models and machine learning is driving exponential data growth from end to end and to users, 800G Ethernet is ready for deployment.

The V2-800G is new generation 800G test module developed by Xinertel with a globally leading architecture, which can meet the needs of 800G network infrastructure and equipment. The functional and performance test requirements include traffic and performance test scenarios for routers, switches, NICs, TAP switches, optical modules, DAC cables, etc.

Key features

- Native 2xQSFP-DD800 and 2xOSFP800 interfaces (8X112G PAM4)，compatible with 400GE/200GE/100GE
- Support L2-3 traffic generation and protocol emulation
- Support AN/LT protocol test (DAC cable test)
- Support optical module testing
- Support FPGA based 100% line rate traffic generation, statistics, and packet capture
- Support dynamic adjustment of bandwidth from 0 to 100%
- Language for test software GUI: English and Chinese
- Language for test report: English and Chinese

Models

Product	Product Description	Product classification
V2-800G-2M-S Test Module	2-port 800G test module	BigTao1000 series test module

Specifications

Hardware and electrical characteristics	
Port speed	2x400GE (8X112G PAM4), 1 800G port fan-out supports 2x400G, 2x200G or 4x100G.
Port density	2 QSFP-DD interfaces or 2 OSFP interfaces for single test module
Interface standards	2x400GBASE-SR4/LR4/FR4/DR4，AEC，AOC，DAC
User reservation	Reservation by port
Port speed switching	Switch speed by port group
Number of ports	2
Power supply	DC 54V
Dimensions (W*H*D)	290mmx230mm x 45.32mm
Temperature	0° C~35° C
Humidity	20%~85%
Max power consumption (W)	300W
Chassis	Bigtao1000 chassis
Chassis operating System and supported software	Linux , Renix