

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)
- Support L2-3 traffic generation and protocol emulation
- Support AN/LT protocol test(DAC cable test)
- Support traffic testing for transciever
- Support FPGA based 100% line rate traffic generation, statistics, and packet capture
- Support dynamic adjustment of bandwidth from 0 to 100%

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 | 800G |
| Port density | 2 QSFP-DD interfaces or 2 OSFP interfaces |
| Interface standards | QSFP-DD800, OSFP800 |
| User reservation | Reservation by port |
| Port speed switching | Switch speed by port group |
| Number of ports | 2 |
| Power supply | DC 54V |
| Weight(kg) | 2.6 |
| Dimensions(W x H x D) | 290mm x 230mm x 45.3mm |
| Temperature | 0° C~35° C |
| Humidity | 20%~85% |
| Max power consumption(W) | 300W |
| Chassis | Bigtao1000 chassis |
| Chassis operating System and supported software | Linux, RENIX |