

TW-6120

FREE SPACE OPTICAL MODEM



HIGH THROUGHPUT & LOW LATENCY

TrellisWare's TW-6120 modem provides industry leading performance for tactical Free Space Optical (FSO) communications links. With throughputs up to 850 Mbps, the TW-6120 is making the next generation of FSO systems a reality today.

MITIGATES ATMOSPHERIC SCINTILLATION

Built on TrellisWare's F-LDPC error correcting codes, the TW-6120 uses Hybrid-ARQ and fast rate adaption to optimize modem performance on a millisecond-by-millisecond basis. The TW-6120 dramatically reduces the effects of atmospheric scintillation on links up to 70 km.

BUILT FOR HARSH CONDITIONS

Designed to enable tactical FSO links, the TW-6120 is engineered to provide robust and reliable communications in real-world operation. Environmentally sealed electronics and an internal heat exchanger allow use across a full range of field conditions.

DESIGNED FOR INTEROPERABILITY

Compliant with the TALON architecture, the TW-6120 can be easily integrated with a variety of optical and system architectures.

FSO MODEM SPECS

Size	1.75"(H) x 17.5"(W) x 16.5"(D)
Weight	13 lbs.
Rack Mount	19" rack mountable
Throughput Range	Up to 70 km
Rate Adaptation	Automatic
Payload Buffer	Up to 16,384 packets
Environmental	MIL-STD-810G
Operating Temperatures	-40 C to +55 C
Power	28 VDC, < 80 W
Optical Wavelength	Optical C-band, configurable via internal SFP module
Optical Interface	Single-mode FC/PC Tx Multi-mode FC/PC Rx
Payload Data Interface	Dedicated 10/100/1000 Base-T Ethernet
Control Interfaces	Dedicated 10/100/1000 Base-T Ethernet, TALON Modem ICD compliant
Configuration & Status	Dedicated LEDs for general status, TALON status and configuration, Built-in web GUI, SNMPv3
Networking	Dynamic Link Exchange Protocol (DLEP)