PULSensor Appliance 500

Data Sheet

Highlights

- A palm-sized powerhouse packed with monitoring performance for access and metro
- Versatile segmented and distributed network monitoring
- Easy to deploy, manage and use for maximum utility and lowest cost

Best-of-Breed Monitoring

CreaNODE 500 is a miniaturized probe for segmented and distributed monitoring in metro and access. Thanks to its high precision measurements, the CreaNODE 500 is perfect for monitoring tasks where detailed networking visibility is needed.

With the Creanord NetPrecision L3 measurement, you can monitor end-to-end segments and topologies such as mesh, partial mesh and ring. TrueTCP RFC 6349 and Y.1564 SAT provide you a toolset for service activation testing and throughput monitoring. Additionally included are versatile troubleshooting capabilities and data collection. The CreaNODE 500 is the probe of choice, when network visibility, monitoring flexibility and absolute precision are required.

Features

Flexible Mini Ethernet and IP network measurement probe

Perfect for distributed and segmented WAN monitoring

Designed specifically for NetPrecision probe to probe and segmented testing

Supercharged RFC 6349 TrueTCP L4-L7 measurements with 1 000 000 simultaneous TCP connections

Y.1564 Service Activation Testing on L2 and L3
Hardware Timestamp Engine for 1 microsecond accuracy
Continuous delay and loss measurements
Full interworking with any CreaNODE physical or virtual prob
Seamless integration with EchoVault Performance Management and SLA Reporting

Measurements

	(KPIs)	Unique features	Main application
NetPrecision	One-Way Delay, One-Way Delay, Loss	1us accuracy, accurate one-way delay, Test Topology Designer	Segmentation, full and partial mesh
TrueTCP	TCP Throughput, Transfer Time Ratio, Buffer Delay	1M connections, per CoS bw, real-time result preview, repository, scheduling	L4-L7 monitoring RFC 6349, application layer monitoring
Y.1564	Bandwidth, TD, DV, Loss, Availability	1us accurate timestamping, report repository, scheduling and queuing	SAT, Troubleshooting
TWAMP	Delay, Delay Variation, Loss, MOS	1us accuracy, Peak-to-peak IPDV, custom percentiles, MOS	Continuous E2E monitoring
UDP Echo	Delay, Delay Variation, Loss	1us accuracy, Peak-to-peak IPDV, custom percentiles	Continuous E2E monitoring
Y.1731-LB	Delay, Delay Variation, Loss	1us accuracy	Continuous L2 E2E monitoring
ICMP	Delay, Delay Variation, Loss	Percentiles	Ubiquitous monitoring
TCP Connect	DNS resolution time, TCP connect	1000 targets per measurement	Application layer monitoring
eXtended SNMP	Interface stats, Network Element Resources, Environment	Support for any network elements, MIB upload, math operators and variables	Bandwidth, resource, radio link KPI monitoring

Standards

Standard	
RFC 5357	TWAMP Control Client
RFC 5357	TWAMP Appendix 1 ”TWAMP light”
RFC 6349	TCP Throughput
ITU-T Y.1564	Service Activation Testing
ITU-T Y.1731/802.1ag	ETH-LB

RFC 862	UDP Echo
RFC 792	Internet Control Message Protocol (ICMP)
IEEE 1588v2	Precision Time Protocol (PTP)
RFC 958	Network Time Protocol (NTP)

Specifications

Interfaces	Architecture	Dimensions
3 x 1 GbE LAN ports (RJ45) 1 x RS232 Console (RJ45)	Quad-Core Intel® CPU 8 GB RAM, 16 GB Solid State Memory Hardware Timestamp Engine on Test Ports 500 Test Targets	H: 19.4 mm; W: 124.26 mm; D: 199.66 mm Weight 0.5 kg

Module	Part #	Description
CreaNODE 500	CN6315	Creanord CreaNODE 500 miniaturized probe. A palm-sized powerhouse, packed with packet performance for advanced, segmented and distributed IP network assurance for Metro and Access. Supports line-rate TCP testing. Precision time-stamping. Supports up to 500 concurrent tests (bi-directional). Interfaces: 3 x 10/100/1000BaseT (RJ45), 1 x RS232 Console (RJ45). AC/DC (100-240VAC) Power Adapter.

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