

HARDWARE APPLIANCE DATA SHEET



The PROVA-X is a six-speed packet-based networking test appliance for data centers, communications service providers and networking equipment manufacturers. This generic hardware appliance can be used for multiple applications, including Ethernet/IP network equipment benchmarking, network performance assurance, deep packet inspection, flow impairment and much more. The PROVA-X is designed for lab, telco central office and data center installation, and provides wire-rate traffic generation and capture on all ports. The PROVA-X is based on reconfigurable FPGA technology and is equipped with latest embedded processors and memory technology to enable robust and feature-rich applications.



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HEXSPEED Test Appliance



Key Features:

- Generic appliance can be loaded with a variety of test & measurement applications
- Supports 10Mbps to 10Gbps interfaces
- Wire-rate packet generation and capture on each test port
- Full 40Gbps of throughput
- 8GB capture buffer
- Easy-to-use GUI
- Ultra-low power consumption
- Compact 1RU footprint
- External clock reference input and output/trigger
- Linux® Operating System

Test Ports:

- 4 x MSA Compliant SFP+ Ports
- Supports IEEE 802.3:
 - 10GBASE-SR short reach optical
 - 10GBASE-LR long reach optical
 - 10GBASE-T copper
 - 5GBASE-T copper
 - 2.5GBASE-T copper
 - 1000BASE-SX short reach optical
 - 1000BASE-LX long reach optical
 - 1000BASE-T copper
 - 100BASE-TX copper
 - 10BASE-T copper
- SFF-8431 Power Level III

Management:

- 2 x 100BASE-TX/1000BASE-T Ethernet ports
- USB 2.0 Type B port for console access
- USB 2.0 Type A port for peripherals
- IPv4 and IPv6 support
- Web GUI
- RESTful API/JSON
- LUA Scripting

Synchronization Reference Interfaces:

- RG-58 (50Ω), BNC, for 1PPS signals

Physical and Power:

- 1RU (1.75"H x 17.5"W x 8.75"D)
- 19" or 23" rack-mount ears
- Approx. 6 lbs (2.5 Kg)
- Front-to-back forced airflow with redundant fans
- No rear connectors
- 24 - 60 VDC input
- 100 - 240 VAC, 50 - 60 Hz input
- Protective Earth Ground lug (screw-type)
- 55 Watts max power consumption
- 0°C to 50°C ambient operating temperature (sea level), 5 to 95% RH non-condensing
- -25°C to +75°C storage temperature

Regulatory Compliance:

- UL 60950-1
- CAN/CSA C22.2 No. 60950-1
- EN/IEC 60950-1
- EN55022
- EN55024
- EN61000-6-1
- EN61000-6-3
- EN61000-3-2
- EN61000-3-3
- FCC Part 15, Subpart B, Class A
- Industry Canada ICES-003
- IEC 60825-1
- RoHS Directive 2011/65/EU
- Low Voltage Directive 2014/35/EU
- WEEE Directive 2012/19/EU
- Packaging Directive 2004/12/EC

Small-Form Pluggables	
Model No.	Description
SFP-M1500M-M3	SFP 1G MMF 850nm 500m LC
SFP-S1020K-S2	SFP 1G SMF 1310nm 20km LC
SFP-M1300M-M3	SFP+ 10G MMF 850nm 300m LC
SFP-S1010K-S2	SFP+ 10G SMF 1310nm 10km LC
SFP-C3030M-CP	SFP+ 10GBASE-T Cat 6a UTP
SFP-C4100M-CP	SFP+ 2.5G/5GBASE-T Cat 5e UTP
SFP-C2100M-CP	SFP 10/100/1000BASE-T Cat 5 UTP

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