NETWORK INFORMATION COMPUTER (NIC)

Modular platform for telecom / datacom testing

KEY FEATURES

- Available with battery power option
- Simultaneous and independent testing of multiple ports and multiple streams
- One-box solution for telecom and datacom testing
- Compact and lightweight – fits under an airline seat
- When configured as the NIC 40G, the 2-slot NIC is the smallest and lightest 40/43G test set on the market
- Easy-to-use Graphical User Interface (GUI)
- Remote control GUI included
- Modular, upgradeable design provides investment protection
- Three-year warranty
- Free 24-hour technical support

The NIC is a scalable solution for verifying and qualifying the performance of today's multiprotocol global communications networks.

With a flexible software/firmware-based architecture, the scalable NIC Plus combines in a single platform the multitude of traditional hardware-based test sets required to install, maintain, and monitor high-speed multi-protocol networks.

The NIC is designed to grow as your network grows, and as technologies change. The NIC products support SONET/SDH up to 40Gbps. NextGeneration (VCAT, LCAS, GFP), OTN up to 43Gbps, PDH/T-Carrier, Ethernet 10/100/1000BaseT, GigE, 10GigE (LAN, WAN, FEC), Fibre Channel, ATM, Jitter/Wander testing and Optical Spectrum Analyzer.

PLATFORMS

NIC NXG

NIC Plus

NIC EP

AVAILABLE MODULES

MSA 4043 (40/43G)

A NIC with MSA 4043 module (NIC 40G) is the industry's smallest/lightest 40/43G test solution. NIC Plus/NIC EP can optionally support dual 40/43G testing or provide 1.5M to 43G & Ethernet test in one chassis.

MSA 2020A/2030A

The MSA 2020A and 2030A (Multi-Service Analyzer) modules are available with SONET/SDH testing up to 10G + optional OTN, Ethernet 10/100/1000, GigE, 10GigE LAN/WAN, 100BaseFX, ATM, Fibre Channel, GFP, VCAT, and LCAS.

SSA 1220

The SSA 1220 module provides cost-effective SONET/SDH testing from 51M to 10G plus optional OTN, ATM capability and All Path Testing™.

OSA 3010/3020/3030

The OSA 3010 (C-Band), OSA 3020 (L-Band) and OSA 3030 (L-Band and C-Band) are Optical Spectrum Analyzer modules, providing DWDM network testing for the NIC platforms.

HDE 1201/1301 (High Density Ethernet)

Test up to eight 10/100/1000 ports, four optical GigE ports and one 10GigE port (10GigE in HDE 1301 only). Test up to 60 ports in a single NIC Plus or EP chassis.

JWA 2010/2025 (Jitter/Wander)

For Jitter and Wander testing at 51M, 155M, 622M, 2.5G, 2.66G, 10G and 10.7G we offer Jitter Modules with Digital Phase Analysis for industry-standard ITU-T O.172 testing.

PDH 1010/1020 (PDH/T-Carrier)

DS1/E1/E3/DS3/E4 testing with dual DS1/E1 ports + simultaneous and independent testing, optional jitter and wander, and add/drop to SONET/SDH/OTN, when combined with SSA or MSA module.

FibreVu Probe

A digital video inspection probe for visualization of connector end-faces and detection/analysis of connector defects, the FiberVu Probe operates with a PC or with new NIC Platform products.

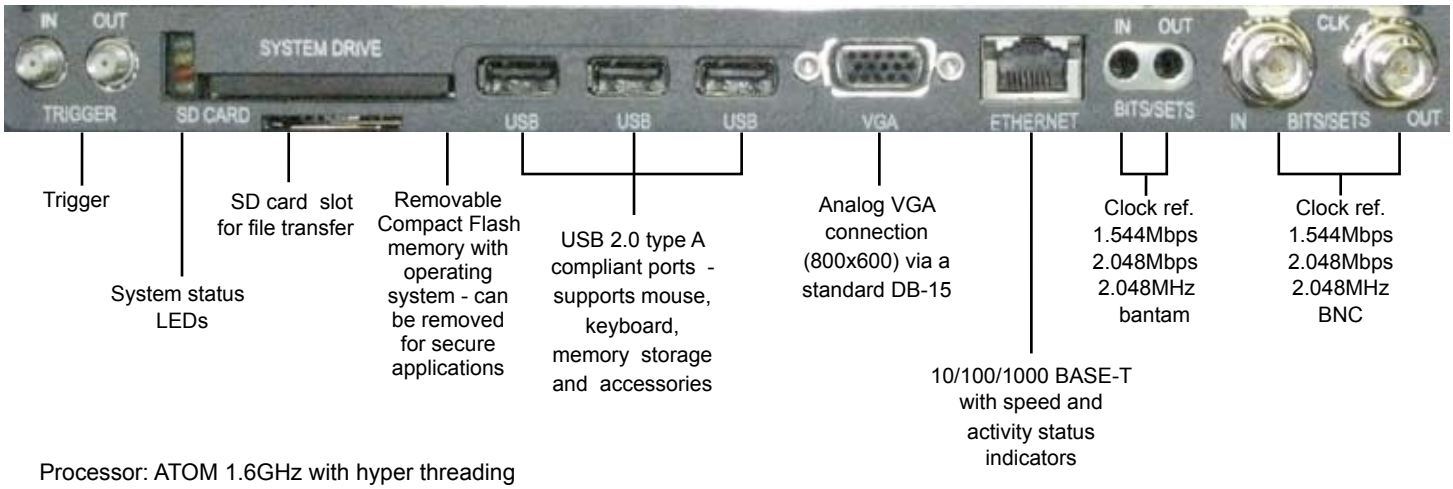
Network Impairment Observer (NIO)

The NIO application monitors Digital Lightwave NICs, and enables a single user to check on the status of multiple NICs at the same time. It also provides a quick access method to NICs that need to be investigated. Simply click on a single NIC in the list and NIO will launch the Remote GUI, with full control of the NIC. Multiple Remote GUI applications can be run simultaneously.

Common NIC Platform Features

- Test result storage and retrieval
- Test setup storage and retrieval
- Audible alarm/error notification
- Email notification of alarms/errors and test completion
- Remote control GUI included
- Multi-user remote control, 10 simultaneous users
- Supports 512 individual remote user accounts
- Supports 802.3 wireless LAN with add on
- Removable memory for use in secure areas

System Controller Specifications



Processor: ATOM 1.6GHz with hyper threading

Internal Memory: 1GB of RAM

Internal storage:

- Industrial grade compact flash - standard
- Field serviceable & removable

Operating System: Windows Embedded Standard

800 x 600 resolution display with matte finish anti-glare touchscreen to minimize glare and fingerprints

Clocking: Supports BITS, SETS, and 2.048MHz clock in and out reference

- Supports reference clock in & out options via standard 100/120 ohm Bantam and 75 ohm BNC connectors
- Internal system reference clock (used for internal clock modes) is a stratum 3

External Ethernet Control: 10/100/1000BASE-T RJ-45 with Speed and Activity status LEDs

USB ports

- 3 external USB type A 2.0 compliant ports
- Supports external peripherals including: GPIB, USB storage, keyboard, mouse, printer, wireless adapters, USB to RS-232, USB to Parallel

SD memory

- External slot on faceplate
- SD supported up to 4Gig

VGA port: Supports an external analog VGA connection (800x600 resolution) via a standard DB-15 front panel connector

Trigger

- Trigger In supports restart or error insertion (user-defined) when trigger pulse is received
- Trigger Out provides trigger pulse when certain errors or alarms (user-defined) are detected

RS-232 Serial port - supports USB to RS-232 adapter

System Status LEDs

- 4 LEDs display the status of the NIC

NIC NXG Chassis*

NIC BP Chassis*

NIC Plus Chassis*

NIC EP Chassis*

The NIC NXG Chassis

Two-slot compact chassis for field testing of SONET, SDH, OTN, ATM, Ethernet and DWDM networks. Fits under an airline seat. Can be configured as a NIC 40G, the industry's smallest/lightest 40/43Gbps test solution.

The NIC BP Chassis

Battery power to support applications where power is unavailable or unreliable.

The NIC Plus Chassis

With five-slots available, the NIC Plus and NIC Plus NXG provide telecom and datacom testing in one chassis, capable of unmatched multi-port configurations as well as jitter and wander testing.

The NIC EP Chassis

Rack-mount five-slot chassis "Embedded Platform" with remote management software to enable remote circuit turn up, monitoring, troubleshooting and is also optimized for lab and manufacturing applications.

General Specifications

Memory storage: Internal non-volatile memory, USB, PCMCIA
Operating System: Windows XP Embedded
Operating Temperature: 0° to 40° C @ 85% RH
Storage Temperature: -20° to 60° C @ 95% RH
Power Requirements: 100 to 120 and 200 to 240 VAC, 50-60 Hz
Dimensions - NIC: 10.1 H x 12.3 W x 4.7 D in (257 x 312 x 120 mm)
Dimensions - NIC BP: 10.1 H x 12.3 W x 5.0 D in (257 x 312 x 127 mm)
Dimensions - NIC Plus: 13.7 H x 13.0 W x 7.9 D in (348 x 330 x 201 mm)
Dimensions - NIC EP: 7.0 H x 19.0 W x 10.6 D in (178 x 483 x 269 mm)
Weight - NIC: 11 - 12.5 lb, depending on configuration
Weight - NIC BP: 12.5 - 14 lb, depending on configuration
Weight - NIC Plus: 14.5 - 25 lb, depending on configuration
Weight - NIC EP: 14.5 - 25 lb, depending on configuration
Screen - NIC & NIC BP: 10.4-inch active matrix color display with touchscreen
Screen - NIC Plus: 12.1-inch active matrix color display with touchscreen
Power Supply - AC Power Supply and Rechargeable Battery

Auxiliary Interfaces

Remote Control/Software Update: 10/100 BaseT, RJ-45
Wireless Remote Control Software Update: 802.11B PCMCIA Support
External Memory: USB or PCMCIA Dual Slot (2 Type II or 1 Type III support)
Input/Output Trigger: SMA
BITS/SETS Clock: Bantam 1.544M/2.048M

Battery Specification

Battery Type: Lithium Ion
Capacity: 95 watt-hours
Voltage input: 24v
Life cycle: 100-300 charges to reach 80% capacity
Warranty: 1 year warranty on battery

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