



InterWatch™

Performance & Verification System



KEY BENEFITS:

- ▶ Multi-processor architecture
- ▶ FPGA hardware analysis on all modules
- ▶ Reliable SolarisT operating system
- ▶ Simultaneous support for multiple applications and remote users
- ▶ Multiport traffic generation at 100% utilization
- ▶ Up to 10ns time stamp resolution across all interfaces/ports
- ▶ Real-time 7-layer protocol analysis
- ▶ 100% line rate capture

The InterWatch Performance and Verification System provides the industry's most comprehensive, scalable application testing solution available. Bringing all elements of superior network performance testing into a single unit, the InterWatch offers a superior modular platform for testing today's high-speed networks, while guaranteeing solutions for tomorrow.

The InterWatch platform provides a combination of modular interfaces and applications to meet the needs of the most challenging test environments. The InterWatch architecture provides application testing support for leading technologies including Voice over IP (VoIP), Generalized /Multi Protocol Label Switching (GMPLS/MPLS), Universal Mobile Telecommunications System (UMTS), Quality of Service (QoS), ATM Signaling (UNI, PNNI), Inverse Multiplexing over ATM (IMA), IP Performance and Access technologies.

The portable InterWatch 95000 system is self-contained with an LCD display and provides 8 slots for interface modules, affording one of the highest port densities on the market. The rack mount InterWatch 96000 offers 15 slots for larger lab environments.

The powerful protocol engines come standard with 300 MHz PowerPC processors and 192 MB RAM, enabling the InterWatch to perform real-time decodes and analysis of the 7 layer OSI model.

Both InterWatch systems can be remotely accessed using any of a number of supported X-window clients, permitting multiple users to simultaneously configure and perform independent testing from remote UNIX or PC workstations.

The extensive software applications and hardware modules are identical for both units, allowing users the flexibility to swap interface modules between systems, based on individual test requirements.

All testing on the InterWatch can be automated with the aid of the Automated Test Authoring Kit (ATAK). ATAK provides an intuitive user environment that allows application developers to increase testing productivity and flexibility through full Tcl script control of monitoring, generation and signaling applications.

The modular architecture of the InterWatch platform, combined with the extensive automated application support, provides the most comprehensive scalable application testing solution available for high-speed networks.



Specifications

<p>InterWatch 95000 Portable Platform</p> <ul style="list-style-type: none"> ▶ 600 MHz Pentium® III ▶ 512 MB RAM ▶ 60 GB EIDE Hard Drive ▶ 10.4 " LCD ▶ External VGA Support ▶ Trackball ▶ DB9 External Mouse Support ▶ 10/100 Ethernet Port <p>InterWatch 96000 Rack Mount Platform</p> <ul style="list-style-type: none"> ▶ 600 MHz Pentium® III ▶ 512 MB RAM ▶ 60 GB EIDE Hard Drive ▶ External VGA Support ▶ PS/2, AT External Keyboard Support ▶ DB9 External Mouse Support ▶ 10/100 Ethernet Port <p>Primary Protocol Engine</p> <ul style="list-style-type: none"> ▶ 300 MHz PowerPC® ▶ 192 MB RAM (192 MB RAM max.) <p>Secondary Protocol Engine</p> <ul style="list-style-type: none"> ▶ 300 MHz PowerPC® ▶ 256 MB RAM (256 MB RAM max.) <p>Test Applications</p> <ul style="list-style-type: none"> ▶ Access ▶ ATM ▶ IMA ▶ IP ▶ GMPLS/MPLS ▶ NGN/VoIP ▶ PNNI/UNI ▶ UMTS 	<p>Automation</p> <p>Automated Test Authoring Kit (ATAK). Full Tcl script control of monitoring, generation and signaling applications.</p> <p>Remote Client Support</p> <ul style="list-style-type: none"> ▶ Open Look ▶ Motif ▶ CDE ▶ Exceed ▶ ReflectionX ▶ X-Win 32 ▶ Vue <p>Power Supply</p> <ul style="list-style-type: none"> ▶ InterWatch 95000 100-240 VAC, 50/60Hz, 8.0A ▶ InterWatch 96000 100-240 VAC, 50/60Hz, 10A <p>Physical Characteristics</p> <p>InterWatch 95000 (Portable)</p> <p>Width: 35.5 cm (14.2 ") Height: 21.5 cm (8.6 ") Depth: 45 cm (18 ") Weight: 12.7 kg (28 lbs.)</p> <p>InterWatch 96000 (Rack Mount)</p> <p>Width: 47.5 cm (19 ") Height: 39.375 cm (15.75 ") Depth: 36.25 cm (14.5 ") Weight: 15 kg (33 lbs.)</p> <p>Environmental Characteristics</p> <p>Operating Temperature 5° C to 40° C</p> <p>Storage Temperature -20° C to 70 C</p> <p>Gradient Temperature 20° C hour maximum</p> <p>Noise Level 60 dB(A) SPL</p>	<p>Standards</p> <ul style="list-style-type: none"> ▶ FCC ▶ DOC ▶ IEC ▶ CSA ▶ UL ▶ CE ▶ NEBS Level 1 <p>Part Numbers</p> <p>01-102400E InterWatch 95000</p> <ul style="list-style-type: none"> ▶ Portable Platform ▶ 8 VME-64 Slots <p>01-104300B InterWatch 96000</p> <ul style="list-style-type: none"> ▶ Rack Mount Platform ▶ 15 VME-64 Slots <p>01-104000D Primary Protocol Engine V3.0 (PPE)</p> <ul style="list-style-type: none"> ▶ Occupies 1 VME-64 Slot ▶ 300 MHz PowerPC RISC Processor ▶ ISA Bus Interface ▶ 192 MB RAM <p>01-104599A Primary Protocol Engine Upgrade</p> <ul style="list-style-type: none"> ▶ 64 MB Memory Module (192 Total) <p>01-103230D Secondary Protocol Engine V3.0 (SPE)</p> <ul style="list-style-type: none"> ▶ Occupies 1 VME-64 Slot ▶ 300 MHz PowerPC RISC Processor ▶ ISA Bus Interface ▶ 256 MB RAM <p>01-104470A Secondary Protocol Engine Upgrade</p> <ul style="list-style-type: none"> ▶ 128 MB Memory Module (256 Total)
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Established in 1976, Navtel Communications Inc. is a global provider of telecommunications test solutions for the evaluation of network technologies and services in the converged Mobile and Fixed Networks industry.

Navtel's solutions ensure manufacturers and service providers get a comprehensive analysis of the equipment, technology and services under evaluation. This includes functional, conformance, interoperability, performance and scalability testing.

Our substantial investment in a strong and dedicated R&D team coupled with our participation in organizations such as; ETSI, MSF, MPLS Forum, IPv6 Forum, SIP Forum, UNH-IOL Consortium and IPCC has allowed us to become the experts in new and emerging technologies.

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