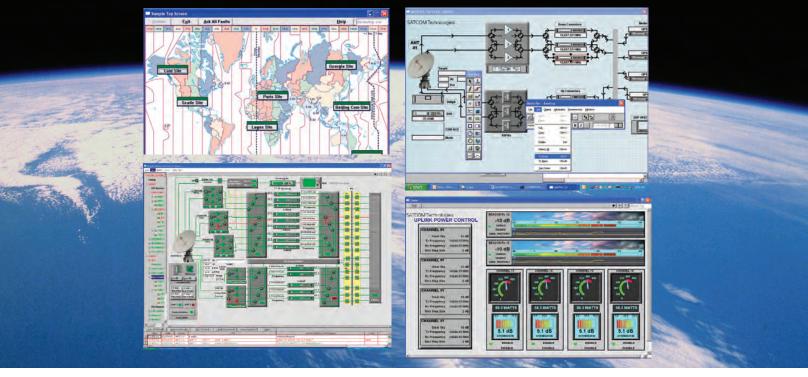
NetMAC® Monitor and Control

Total System Management

Satcom & Antenna Technologies Division



Overview

The NetMAC® (Network Monitor and Control)
System is the complete management tool for your
telecommunications system, from a single site to a
full array of functions. The NetMAC® provides cost effective
and powerful central control of your total operations,
giving you the competitive edge.

The NetMAC® has been optimized for the management of communication systems at either a single site or a network having multiple remote locations.

Whether these locations communicate with a single hub, multiple hubs, or exist in a hubless mesh network, the NetMAC® can work within the existing topology and easily expanded to meet your future growth plans.

To fulfill your needs, we have combined flexible hardware configurations in concert with an extensive set of built-in software tools coupled with point-and-click graphics. Customized reporting, automatic task scheduling, and control process programming are just a few of the ways in which you can take charge of your system with NetMAC®.

Key Features

- Full Featured, Easy to Use
- Configuration Management
- User Configurable
- Client / Server Architecture
- Remote Manager Consoles
- User-Configurable Drivers
- Protocol Analyzer
- Fault Masking
- Security Hardened
- LDAP for NetMAC® Logins
- SSL for GUI-to-IOM Communication

- SSH IOM Login
- Recorded Command Macros
- Action Process
- Multi-Level Severity Alarms
- Multi-Level Password Protection
- SNMP Agent
- Task Scheduling
- Live / Historical Data Graphing
- Report Generation
- Single Box Solution

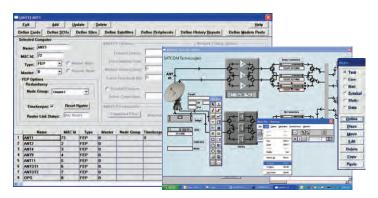
Options

- SNMP V3
- Carrier Monitoring System
- Spectrum Analyzer Display and Command
- BIT / BITE
- Site Diversity Switching
- Uplink Power Control
- Additional Security



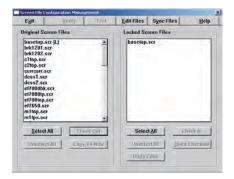
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User Configurable

NetMAC® comes equipped with all tools necessary to add new devices, write your own device drivers, and modify and/or add new system screens.



Configuration Management

The NetMAC® file Configuration Management System keeps the worry away on keeping multiple workstations up to date. When a change is made to a screen, bitmap, unit control screen, and/or wav file, it is automatically sent to all other workstations. If a workstation is down at the time, when it comes back up it automatically checks to see if it needs any updates.

Client/Server Architecture

The NetMAC® architecture is a unique split OS system utilizing Microsoft Windows OS for the Graphical User Interface and QNX for the data gatherer. QNX provides the real-time environment necessary to respond effectively and efficiently to problems or potential problems in your system. QNX is an extensible POSIX-certified OS with a proven track record for reliability.

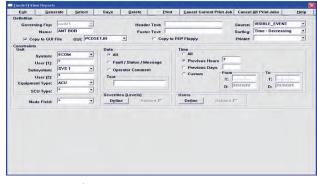
Point and Click Graphical User Interface

NetMAC® GUI is Object-Oriented in design and utilizes the Windows point and click user interface.

Multi-Level Password Protection

The system administrator assigns each user feature level access as well as equipment level access. For added security, the passwords can be hardened; meaning: they must follow a rigid rule set.





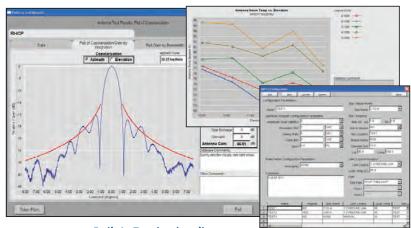
Report Generation

Capable of generating a variety of different reports, based on types of equipment, time of day, specific event severities, particular users, and more.



Live Data / Graphing / History Reporting

NetMAC® allows gathering of data for detecting intermittent problems and performance analysis. The NetMAC® History function gives you the ability to select and collect raw datapoint values and display these values on-screen live or export the information for use with any graphic and/or spread sheet application.

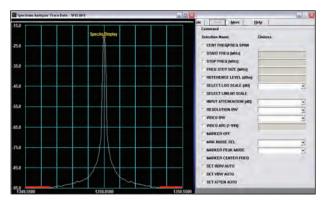


Built-In Test (optional)

NetMAC® provides automated tests to help maintain the quality of an earth station. They can alert the operator to system changes by monitoring test points and indicators to support function verification, performance analysis, and fault isolation. Typical automated tests include G/T measurements (star method), Noise Fgure, and Pattern Integration.

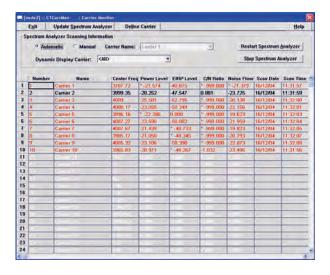
NetMAC® Monitor and Control Total System Management

Control Features and Options



Remote Spectrum Analyzer Display and Command (optional)

The NetMAC® allows for display and command of a spectrum analyzer from any operator console.



Carrier Monitoring System (CMS) (optional)

The NetMAC® can monitor any number of carriers for proper C/N ratios, power levels, noise floors, and EIRP.

On-Line Help

NetMAC® provides the O&M Manual as integrated online help. The user can include specific instructions to customize the help for specific operational procedures.

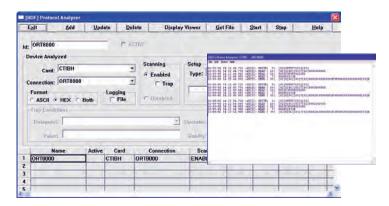
Full Redundancy (optional)

The NetMAC® can provide full "hot redundancy" capability for those mission critical systems. Monitoring and Control operations continue seamlessly upon automatic or manual fall over.



Graphical Driver Interface

NetMAC® provides the ability to write your own custom device drivers..



Protocol Analyzer

NetMAC® comes with the ability to view your message traffic live, and/or store to a file, allowing you to troubleshoot such things as: data errors, protocol problems, timing problems, random problems. by the setting of traps, etc.

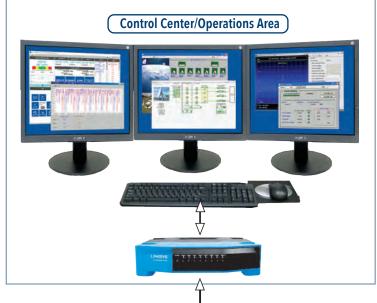


Uplink Power Control (optional)

NetMAC® provides a cost effective uplink power control solution for one or multiple amplifiers.

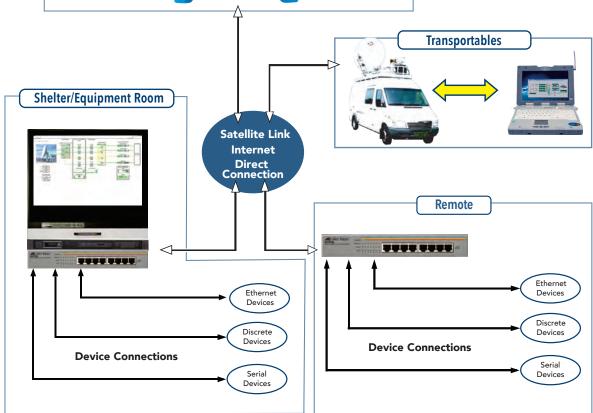


NetMAC® Monitor and Control Total System Management



NetMAC® Supports a Variety of Configurations

- Single Site or Multiple Sites
- Manned or Unmanned
- Full Array of Network Functions
- Remote Access via Leptop



Contact us at CustomerCareSAT@cpii.com or call us at +1 770-689-2040

The data should be used for basic information only. Formal, controlled specifications may be obtained from CPI for use in equipment design.



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For more detailed information, please refer to the corresponding CPI technical description if one has been published, or contact CPI. Specifications may change without notice as a result of additional data or product refinement. Please contact CPI before using this information for system design. © 2022 Communications & Power Industries LLC. Company proprietary: use and reproduction is strickly prohibited without written authorization from CPI.

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