

Prisma II Platform Overview



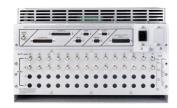
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Prisma II Chassis - Functions



- The Prisma II Chassis provides the following functions
 - Houses the Fan Tray
 - One or Two Power Supplies
 - All application modules and ICIM
 - Distributes electrical power to all modules
 - Transports communication and control signals from the application modules to the ICIM, LCI software or TNCS software





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Prisma II Chassis - Components

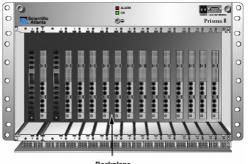
- The Prisma Platform consists of the following standard and optional products
 - Prisma II Chassis
 - Prisma II Fan Tray
 - Prisma II Power Supplies
 - Prisma II Intelligent Communications Interface Module (ICIM)
 - Prisma II Application Modules
 - Local Craft Interface (LCI) Software
 - Transmission Network Control System (TNCS) Software

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Chassis Backplane



- Consists of the inside and outside rear panel of the chassis through which the electrical, communication and RF connections are made to each module in the Prisma II platform.
- The connectors are inherently self-guiding and allow a blind mate connection



Power Supply







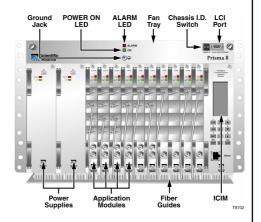
- Front panel has a green ON indicator and a red ALARM inidicator
 - ON indicator illuminates when external power has been applied
 - ALARM indicator illuminates when the power supply has a problem supplying on of the required output voltages to the power chassis

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Redundant Powering



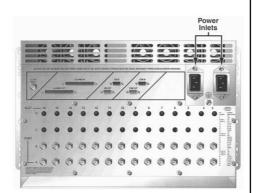
- •When two power supplies are installed they load share
 - There is no switch to fail if one of the PS modules fail.
 - The load is simply taken over by the second PS module.
- •The two power supply slots (1 & 3) are located on the left side of the chassis
 - Slots 1 & 2 are typically used for primary power and slots 3 & 4 for the second power supply
 - If no second power supply is used the space should be filled with a power supply blank.
- The power supplies have internal fans that provide airflow for cooling.



Powering the Chassis



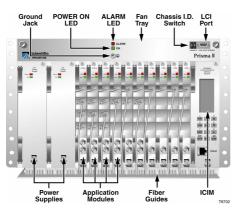
- •The power supplies receive electrical power from the power inlets located on the rear of the chassis.
- A power cord is used to supply AC to the AC power inlet
- A DC mating connector should be placed on the DC leads and inserted into the DC power inlets
- •DC and AC power inlets can be intermixed on one chassis



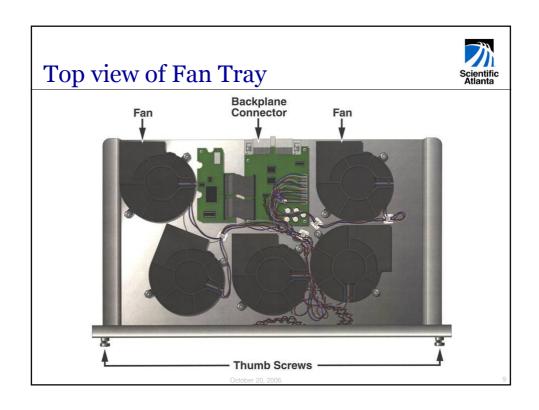
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Fan Tray





- Located at the top of the chassis
- Provides cooling to the chassis and application modules
- Provides temperature and power supply information to monitoring devices
- Available in either front or rear exhaust models
- •Fan Tray can be removed for maintenance or inspection by loosening the two screws located on either side of the front panel.
- •DO NOT operate a chassis without a fan tray.



Prisma II Intelligent Communications Interface Module





- Technician Friendly: Enables Easy Set-up, Monitoring and Maintenance of all Modules
- Optimized For S-A's TNCS/ROSA Network Management System Integration
- Single ICIM Supports Up To 140 Modules ... Saves Space and Cost
- Provides RS-485, RS-232, Ethernet, RF Communications Interfaces
- Designed For Future Enhancements
 ... Direct SNMP Communications,

 Remote Monitoring, and Downloadable Software Future Proofing Network

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ICIM



- LDC Screen
 - Diplays the ICIM menus, alarms, and status information
- 12-key numeric keypad
 - Used to navigate the ICIM's menus and configure the applications modules
- Ethernet Connector
 - Directly connects the ICIM to a network
 - Future applications



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ICIM Keypad Funtions

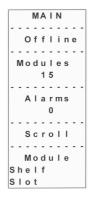


| Button | Function |
|----------|--|
| STAT | Displays status information for the selected module. |
| CFG | Displays configuration information for the selected module. |
| ALRM | Displays all of the parameters in alarm for a selected module. |
| A | Moves the menu selection area up. |
| • | Moves the menu selection area down. |
| SEL | Selects the highlighted parameter. |
| ICIM | Displays ICIM module information such as firmware version, serial number, and baud rate. |
| SHIFT | Shifts function of a keypad button to the function or number label just above that button. |
| _ | Decreases numerical readings of selected configuration parameters. |
| + | Increases numerical readings of selected configuration parameters. |
| ENTER | Enters input data (if valid). |
| MAIN | Exits the current menu and displays the MAIN menu. |

Operating the ICIM



- Upon installation of the ICIM it will operate without the aid of an operator.
- Unless it generates alarms or your system configuration changes, you should not need to make any adjustments beyond the initial setup.



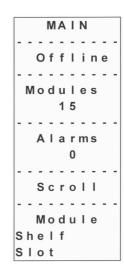
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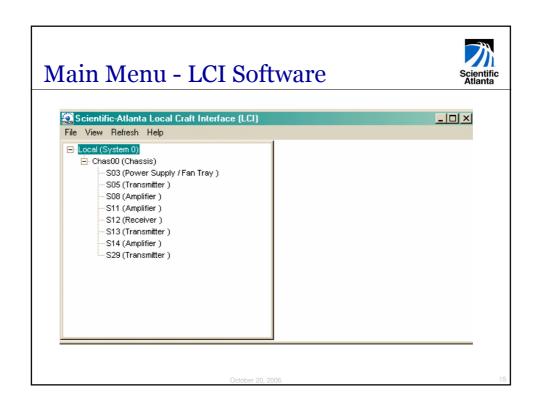
Main Menu - ICIM

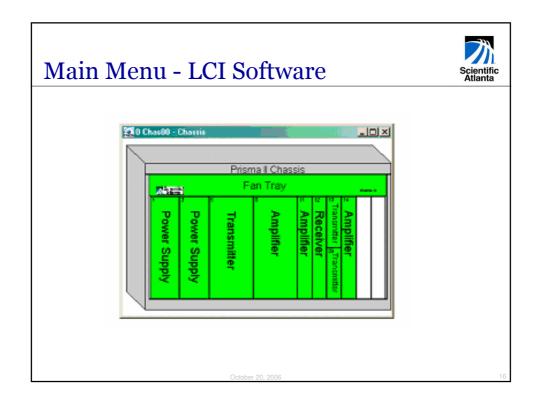


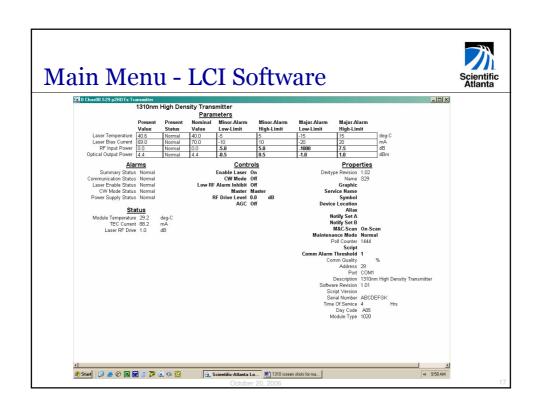
| Display | Description |
|-------------------|---|
| Offline | Indicates TNCS communication status with the ICIM |
| Modules | Indicates the number of modules in the ICIM domain |
| Alarms | Displays the number of modules that are in alarm. Selecting this option allows scrolling through all modules in alarm condition |
| Scroll | Allows scrolling through all modules in the ICIM domain |
| Module Shelf Slot | Allows selection of any specific module in the ICIM domain |

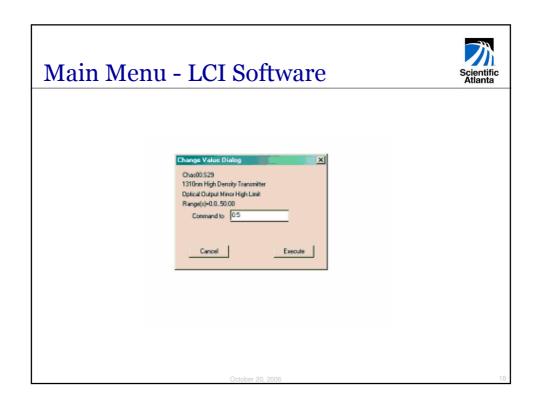


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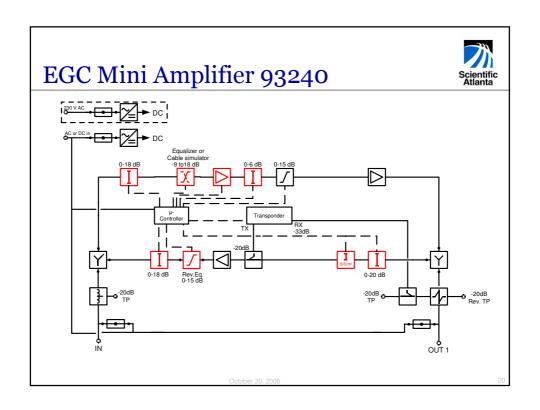












Compact EGC Mini Amplifier



- Ease-of-use by electronic controlled settings
 - Downstream
 - Input attenuation
 - Input equalizer / input cable simulator
 - Different gain settings (28 dB 38 dB)
 - Interstage attenuator
 - Interstage equalizer
 - Upstream
 - Input attenuation
 - Output equalizer
 - Output attenuation
- •3 ways of accessing menus:
 - Traditional menu structure
 - Short cuts for often used (numbers on cover)
 - Menu numbers



Scientific

Thank you!

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