

Specification Sheet

THE NETWORK MANAGEMENT SYSTEM for ASTRO® and ASTRO® 25 Single and Multi-Zone Trunking Systems

The Network Management system hardware consists of a collection of servers used along with PC clients to support the applications used to control, maintain, and optimize the system.

Within a system, multiple servers are contained within a versatile CompactPCI chassis to provide an integrated, flexible, and easily maintainable configuration. In addition to servers, the chassis includes a CD-ROM drive, a main and backup power supply, and in some instances a DAT tape drive. The DAT drive is used for integrated backup and restoration of the databases contained within the various servers.

Each of the servers used within this architecture consists of a single-slot Central Processing Unit (CPU) module and a hard drive. Utilizing the robust Sun Microsystems, Inc. Solaris™ Operating Environment™ operating system, the CPUs provide accelerated, highly reliable performance.

A single zone system requires at least one zone-level and one system-level chassis. Multiple zone systems require a zone-level chassis at each zone as well as a single system-level chassis. An optional cabinet may be ordered to house the zone and system-level chassis. The cabinet has ample rack space to contain two additional chassis for the servers used to manage third party networking devices in an ASTRO®25 system configuration.

ZONE DATABASE SERVER

Contained within the zone-level chassis, the Zone Database Server (ZDS) is required for maintaining the infrastructure configuration database for its zone. The ZDS downloads database information to the Zone Controller upon its initialization. This server is responsible for controlling the access to the network management applications installed on the clients, as well as network management user authentication.

FullVision® SERVER

The FullVision Server handles the primary fault management application functions for the system. The

main function of this server is to process alarms and to store event history. As with the other zone-level servers, one FullVision Server is required per zone. The FullVision Server hosts Hewlett-Packard OpenView® Network Node Manager, the foundation upon which FullVision Integrated Network Manager (INM) is built. OpenView closely integrates with the FullVision INM application to provide object discovery, topology map generation and polling functionality.

ZONE STATISTICS SERVER

The Zone Statistics Server (ZSS) provides data collection and storage for performance statistics at the zone level. Air Traffic data for all subscribers is stored for a period of up to one year. The ZSS is contained within the zone-level chassis.

AIR TRAFFIC ROUTER

Also contained within the zone-level chassis is the Air Traffic Router (ATR). The ATR in each zone collects and consolidates the air traffic information from the Zone Controller and monitors the Zone Controller mobility database for affiliation information. The ATR processes real-time call transactions and measures statistics for the performance management applications.

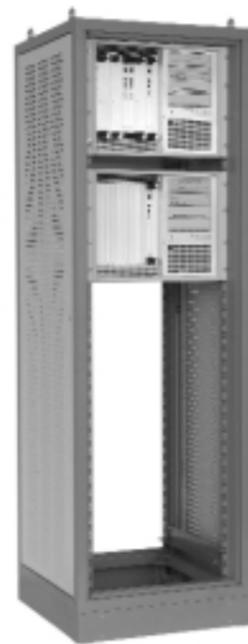
USER CONFIGURATION SERVER

A User Configuration Server (UCS) is required for each system and is located within the system-level chassis. The UCS is required to maintain the network management application database records that cross between multiple zones, such as subscriber and talkgroup information. The UCS hosts the processing of configuration information that supports numerous system-wide features.

SYSTEM STATISTICS SERVER

The System Statistics Server (SSS) is an optional server for multiple zone systems, which supports the ability to generate system-wide historical reports. This server collects call traffic statistics from each zone and provides data storage for the performance management

(continued)



ASTRO



ASTRO 25

Fully integrated chassis shown in cabinet with doors removed.

statistics. This data is processed, aggregated and stored for up to one year. When ordered, this server is also contained within the system-level chassis.

TRANSPORT NETWORK MANAGEMENT SERVERS

The Transport Network Management Servers consist of a WAN Switch Management Server and an Ethernet

Switch Management Server. These two servers are housed in separate CompactPCI chassis. These servers provide a platform for third party applications that configure, administer, monitor and troubleshoot networking devices. These system-level servers are only used in the ASTRO 25 system configuration.

GENERAL SPECIFICATIONS				
	Zone-Level Chassis Rack Mounted	System-Level Chassis Rack Mounted	System and Zone-Level Chassis Enclosed Cabinet	System and Zone-Level Chassis plus Transport Network Management Chassis Enclosed Cabinet
Processor (per server)	440 MHz	440 MHz	440 MHz	440 MHz
Memory (per server)	512 MB	512 MB	512 MB	512 MB
Operating System	Solaris™	Solaris™	Solaris™	Solaris™
AC Main Connections	2	2	4	6
Input Current Drain	3.0 Amps max @ 110V 1.5 Amps max @ 220V	2.0 Amps max @ 110V 1.0 Amps max @ 220V	5.0 Amps max @ 110V 2.5 Amps max @ 220V	9.0 Amps max @ 110V 4.5 Amps max @ 220V
Input Voltage	90 - 240 VAC auto ranging	90 - 240 VAC auto ranging	90 - 240 VAC auto ranging	90 - 240 VAC auto ranging
Input Frequency	48 - 62 Hz	48 - 62 Hz	48 - 62 Hz	48 - 62 Hz
Power Consumption	330 W, max @ 110V	220 W, max @ 110V	550 W, max @ 110V	990 W, max @ 110V
Heat Load	1125 BTU/hour	750 BTU/hour	1875 BTU/hour	3375 BTU/hour

DIMENSIONS				
Weight	34 kg (74 pounds)	30 kg (66 pounds)	145 kg (320 pounds)	204 kg (450 pounds)
	CompactPCI Chassis		Optional Enclosed Cabinet (IEC 297/IEC 917)	
Height	356 mm (14 inches)		195 cm (76 inches)	
Width	439 mm (17.3 inches)		60 cm (24 inches)	
Depth	365.8 mm (14.4 inches)		60 cm (24 inches)	

ENVIRONMENTAL				
Operating Range	5° to 35° Celsius (41° - 95°F)		5° to 35° Celsius (41° - 95°F)	
Non-operating Range	-20° to 60° Celsius (-4° - 140°F)		-20° to 60° Celsius (-4° - 140°F)	
Altitude	3050 m (10,000 feet)		3050 m (10,000 feet)	
Operating Humidity	5% - 90% at 35° Celsius (95°F)		5% - 90% at 35° Celsius (95°F)	
Altitude	4572 m (15,000 feet)		4572 m (15,000 feet)	
Non-operating Humidity	10% - 90% at 46° Celsius (115°F)		10% - 90% at 46° Celsius (115°F)	
Standards	CE, FCC-A and CSA		CE, FCC-A and CSA	



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