



ASTRO[®] 25 PACKET DATA GATEWAY

The ASTRO 25 Packet Data Gateway (PDG) is a modular platform designed to link wire line Internet Protocol (IP) data networks to Motorola's ASTRO 25 Trunked Integrated Voice & Data (IV&D), Conventional IV&D and HPD network. The PDG manages the data messaging.

The Packet Data Gateway complies with the Project 25 packet data user-driven integrated voice and data network specifications for radio to Fixed Network Equipment (FNE) data configurations.

PACKET DATA GATEWAY SERVICES

The ASTRO 25 – Packet Data Gateway provides the following gateway services to ASTRO 25 Integrated Voice & Data or HPD data users:

- **IP Data Services** – manages the message traffic to and from the ASTRO 25 network easing integration with existing wire-line IP data networks. The PDG console will show only the statistics.
- **Radio System Management** – supports SNMP based radio system management within the ASTRO 25 networks for detailed statistics and alarm information to support audit, diagnostic and optimization activities for radio system management. This information can be viewed via the PDG console or through the network management system. The PDG console will show only the statistics.
- **Wide Area Operations** – allows trunking data users to roam seamlessly throughout the coverage area within an ASTRO 25 network without the need to manually select a different channel or have any specific knowledge of the network. In conventional systems, data users will require a new data registration when roaming to a new zone.

PRODUCT SPEC SHEET
ASTRO 25 PACKET DATA GATEWAY

SPECIFICATIONS

PERFORMANCE	Trunked Integrated Voice & Data	Conventional Integrated Voice & Data	HPD
Throughput	Up to 300K ¹ messages per hour	Up to 1,000K ³ messages per hour	Up to 1,000K ¹ messages per hour
Number of Data Users	Up to 20,000	Up to 40,000 ⁴	Up to 20,000 ²
Number of Base Sites	Up to 100		Up to 100
Number of Conventional Channels		Up to 510	

PROCESSOR

CPU (E5440)	2.66 GHz Hex-core Intel® Xeon® processor
Operating System	LINUX® Red Hat®
Memory	18 GB PC3-10600 R (9X2GB)
Hard Drive	1200 GB (4 x 300 GB)
Removable Media	DVD-RW

ENVIRONMENTAL

Input Power	100-240 VAC input, auto selecting, 50-60 Hz
Output Power	700 watts plus PFC kit
Input Current	7.1 amps (at 120 VAC) to 3.5 Amps (at 240 VAC)
Temperature	Operating: 50° to 95° F (10° to 35° C)
Relative Humidity	Operating: 10-90% RH

PHYSICAL

Form Factor	Rack mount server based (1U)
Size (H x W x D)	1.70 x 16.78 x 27.75 inches (4.32 x 42.62 x 69.22 cm)
Weight	up to 39.5 lbs (16.78 KG)
Network Interface Cards	Six ports

STANDARDS

Regulatory	US: FCC CFR47, PT15 Canada: ICES-003 Europe: CE
Safety	CSA 22.2/950, VDE EN 60950, CE

¹ Based on message profile of 50 bytes inbound/100 bytes outbound.

Actual throughput is dependent on system configuration/message profile and may vary.

² In overlay configuration the number of data users is shared between the IV&D and HPD systems.

³ Based on message profile of 512 bytes inbound/outbound. 600K messages per hour for secured.

⁴ An overlaid Conventional IV&D, Trunked IV&D and HPD system supports up to 40,000 data users.