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.
### SPECIFICATIONS

#### PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>Trunked Integrated Voice &amp; Data</th>
<th>Conventional Integrated Voice &amp; Data</th>
<th>HPD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throughput</td>
<td>Up to 300K messages per hour</td>
<td>Up to 1,000K messages per hour</td>
<td>Up to 1,000K messages per hour</td>
</tr>
<tr>
<td>Number of Data Users</td>
<td>Up to 20,000</td>
<td>Up to 40,000</td>
<td>Up to 20,000</td>
</tr>
<tr>
<td>Number of Base Sites</td>
<td>Up to 100</td>
<td></td>
<td>Up to 100</td>
</tr>
<tr>
<td>Number of Conventional Channels</td>
<td>Up to 510</td>
<td></td>
<td>Up to 510</td>
</tr>
</tbody>
</table>

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

#### 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

#### 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°F to 95°F (10° to 35° C)
- Relative Humidity: Operating: 10-90% RH

1. Based on message profile of 50 bytes inbound/100 bytes outbound.
2. Actual throughput is dependent on system configuration/message profile and may vary.
3. In overlay configuration, the number of data users is shared between the IV&D and HPD systems.
4. Based on message profile of 512 bytes inbound/outbound. 600K messages per hour for secured.
5. An overlayed Conventional IV&D, Trunked IV&D and HPD system supports up to 40,000 data users.

### PRODUCT SPEC SHEET
ASTRO 25 PACKET DATA GATEWAY

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