Government and industrial organizations rely on ASTRO 25 systems for mission critical communications and to meet their demanding needs, the GGM 8000 gateway is built to deliver performance, capacity and security above and beyond the capabilities of traditional networking hardware.

Designed to provide a clear demarcation point between your existing IP network architecture and ASTRO 25 systems, the GGM 8000 Gateway is a multi-purpose network communications platform, constructed to interconnect devices and networks within ASTRO 25 systems. The need for special protocols, including multicast, are eliminated with static tunnels through your backhaul network.

The easy serviceable design allows all internal modules to be replaced without removing the chassis from the rack. Motorola manages the firmware, configurations and applications to ensure the highest levels of system integrity, performance, and information assurance compliance.

**CONNECTIVITY PROVIDED**
- ASTRO 25 Core
- ASTRO 25 Sites
  - Dispatch Consoles
  - Trunking
  - Conventional
  - High Performance Data (HPD)
  - SmartX
  - ISSI
- Customer Enterprise Network (CEN)

**FUNCTIONS PERFORMED**
- Radio system traffic call routing (voice and data)
- Packet duplication
- Rapid failure recovery
- Traffic Shaping (packet fragmentation, prioritization, and queuing)
- Dynamic System Resilience site routing
- IP simulcast traffic routing
- Zone Core Protection (ZCP)
- Conventional Channel Gateway
- Advanced Conventional Signaling (MDC1200 and ACIM)

**PHYSICAL INTERFACES**
- Ethernet and T1/E1 interfaces for WAN connectivity
- Ethernet for Site LAN including IP Station Interfaces
- Analog (2- or 4-wire) and V.24 digital conventional station interfaces
- FlexWAN interface for select legacy networks
SECURITY FUNCTIONALITY

Supports data encryption over Ethernet and T1/E1 links using the IPSec and FRF.17 protocols. The GGM 8000 contains an embedded hardware encryption processor. To enable encryption, a properly signed encryption certificate must be loaded.

- Data encryption – Data Encryption Standard (DES), Triple DES (3DES) and 256-bit Advanced Encryption Standard (AES) algorithms
- Data authentication – Message Digest 5 (MD5) algorithm and Secure Hash Algorithm (SHA)

PHYSICAL SPECIFICATIONS

Dimensions 44 (w) x 4.3 (h) x 37 (d) cm
Weight 7.3 kg (16 lb)

ENVIRONMENTAL SPECIFICATIONS

Temperature
- –30 °C to 60 °C (–22 °F to 140 °F) operating for base unit with or without encryption module
- 0 °C to 50 °C (32 °F to 122 °F) operating for base unit configured with optional interface modules
- –40 °C to 85 °C (–40 °F to 185 °F) non-operating

Humidity
- 5 to 95% (Non-Condensing)

Heat Dissipation
- 163 BTU/Hour (Maximum)

Power Consumption
- 48 Watts (Maximum)

AC Power Configuration
- Operating Range 100V to 240V, 50/60Hz
- Current Draw Less than 0.50A at 120VAC
- Less than 0.25A at 220VAC

DC Power Configuration
- Operating Range 20 to 60 VDC
- Current Draw Less than 2.0A at 24VDC
- Less than 1.0A at 48VDC

SECURITY CERTIFICATIONS

FIPS 140-2 Level 2
Common Criteria EAL 2

SAFETY CERTIFICATIONS

North America UL60950-1, CSA C22.2 No. 60950-1

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