

# ASTRO<sup>®</sup> 25

## DCG 9000 GATEWAY

### MISSION-CRITICAL CONNECTIVITY FOR INTEROPERABILITY



**MOTOROLA SOLUTIONS DELIVERS A FULLY INTEGRATED ASTRO 25 SOLUTION, WITH ADVANCED CAPABILITIES AND INNOVATIONS BEYOND THE BASIC P25 FEATURE-SET. BUT IN SOME SITUATIONS YOU MAY NEED TO INTEGRATE A THIRD PARTY BASE STATION INTO YOUR ASTRO SYSTEM. THAT'S WHEN YOU NEED THE DCG 9000 GATEWAY, WITH ITS P25 DFSI INTERFACE.**

Digital Fixed Station Interface (DFSI) as defined by the Telecommunications Industry Association's TIA-102.BAHA-A standard enables dispatch systems to connect with conventional P25 systems. DFSI enables voice communication to repeater sites and allows for repeater control.

Rugged and reliable, the DCG 9000 gateway consists of a field-proven server platform running software that implements the DFSI protocol.

The gateway supports up to 16 P25 conventional IP channels, delivering digital or analog voice. Up to 2 gateways can be installed at each dispatch site.

The product ships with a universal power kit and an easy-install 19-inch equipment tray.

#### FEATURES SUPPORTED

The DCG 9000 is highly performance optimized. It supports P25 DFSI digital conventional IP or analog conventional IP channels. Standard P25 DFSI voice call types are supported.

#### Voice Calls:

- Inbound/Outbound Digital Voice Call, Encrypted or Clear with PTT ID (Group, Emergency and Voice Selective Call)
- Inbound/Outbound Analog Voice Call

#### Control, Dispatch Console to DFSI Station:

- Status Query, Channel Selection Command, Squelch Control Command, Repeat On/Off, Radio Check, Radio Inhibit/Uninhibit, Radio Unit Monitor and Call Alert

#### Control, DFSI Station to Dispatch Console:

- Call Alert, Status Update, Message Update and Emergency Alarm

#### Configuration

- ASTRO 25 K and M-Cores: conventional channels
- ASTRO 25 L-Core: conventional mutual-aid channels only
- Site configurations: NM-Dispatch Site, Conduit Hub Site, Hub Site or C-SUB

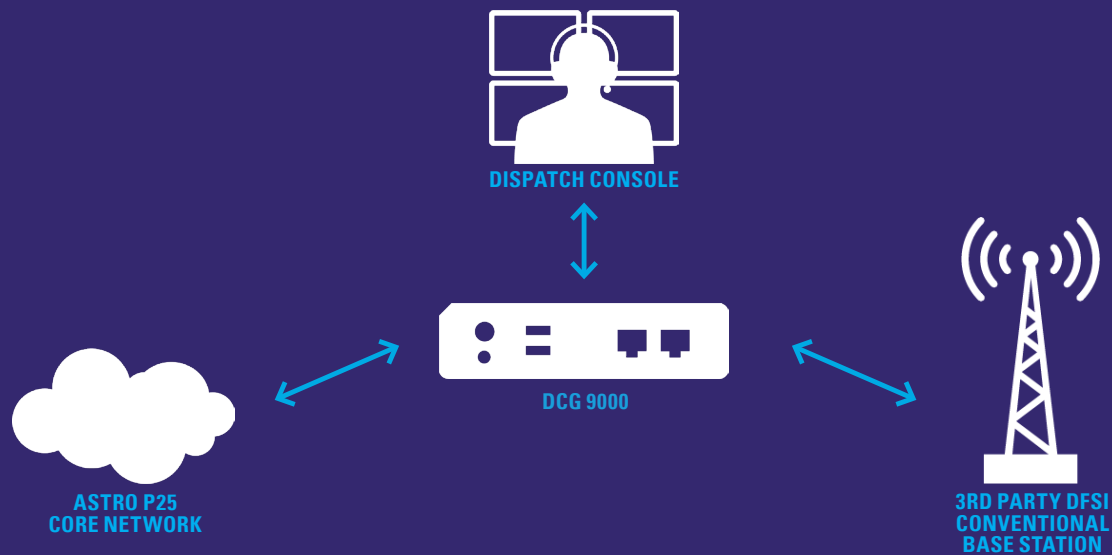
#### SUPPORTED DISPATCH CONSOLES

- MCC 7500, MCC 7100, MCC 7500E

#### PHYSICAL INTERFACE

- 2 x 10/100/1000 Mbps Ethernet ports





## PRODUCT CONFIGURATION

Enclosure  
 Power supply (AC switch-mode external PSU)  
 19 in rack equipment tray (1 RU required)

## PHYSICAL SPECIFICATIONS

Dimensions (WxDxH)	139 x 116 x 36 mm (5.5 x 4.6 x 1.4 in) Housing only: not including power supply and tray.
Weight	1.5 lb (0.7 kg)
Sealing	IP40
Acoustic Noise	None (passive cooling, solid-state drives)
Power Consumption	Typical: 5.9 W Maximum: 10.6 W
AC Power Input	100V to 240V, 50/60Hz to external PSU 12 VDC connection to unit (locking connector)

## ENVIRONMENTAL SPECIFICATIONS

Temperature	-20 °C to 60 °C (-4 °F to +140 °F) - operating -40 °C to 60 °C (-40 °F to +140 °F) - storage
Humidity	TBD
Shock and Vibration	3 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis 30 G, IEC 60068-2-27, half sine, 11 ms duration

## REGULATORY APPROVALS

RoHS, WEEE, EMC

## EMISSIONS CLASSIFICATION (EMC)

FCC Rating	Class B
Normative Standards	CE/FCC Class B (w/o RF) with base model only



Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. [motorolasolutions.com](http://motorolasolutions.com)

MOTOROLA, MOTO, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. © 2018 Motorola Solutions, Inc. All rights reserved. 04-2018