Expand your communications with VoIP technology. Scalable from small operations to complex control centers and geographically disbursed operations, you can depend on the new modular MCD 5000 Deskset System with VoIP technology for your conventional and trunked communications. Whether used in dispatch environments, back-up sites, special events or call monitoring, you can easily expand communication capabilities throughout your organization using your IP network. This easy-to-deploy solution enables communications across your network when and where you need it most, increasing safety, awareness and coordination.

**MCD 5000 DESKSET SYSTEM**

A flexible desktop console, the MCD 5000 Deskset provides digital control for a variety of Motorola two-way radios, and can connect directly to a radio or over an IP network using the MCD 5000 Radio Gateway Unit (RGU).

The MCD 5000 Deskset digital control link emulates the buttons and display of the connected radio and performs all the functions of the radio control head.

And with a large and easy-to-read color LCD screen, intuitive layout and an adjustable viewing angle, the MCD 5000 Deskset is ergonomically designed for both occasional and constant everyday use.
MCD 5000 RADIO GATEWAY UNIT
Connect the MCD 5000 Deskset to radios over your IP network using the MCD 5000 RGU. The MCD 5000 Deskset allows users to dynamically switch between MCD 5000 RGUs, giving access to additional radios across the network and expanding communications. Each MCD 5000 RGU can connect up to four radios, and each MCD 5000 Deskset can connect to one radio at a time.

DESKSET AUDIO ACCESSORIES
With flexible communication options, you can use the handset, Push-To-Talk (PTT) switch and built-in condenser microphone, or add the optional headset, footswitch and desk microphone accessories for user convenience.

IP NETWORK
Take full advantage of VoIP technology and deploy the MCD 5000 Deskset when and where you need it on your IP network.

CONFIGURATION AND REPORTING TOOLS
Our configuration tool offers the convenience of remote use from anywhere on the network or local use with an Ethernet connection. And you can provide timely support and save travel time when you remotely access your system to configure the MCD 5000 Deskset and MCD 5000 RGU. You can also remotely run reports and perform queries for information you need to make real-time decisions. Additional supervisor reporting tools allow monitoring of each MCD 5000 Deskset System devices (MCD 5000 Deskset/MCD 5000 RGU) to enhance training and operational efficiencies.

OPERATIONS MANAGEMENT CENTER (OMC) SERVER
An optional main management server for the MCD 5000 Deskset System, the Operations Management Center (OMC) enables system operation, maintenance, provisioning, and control for larger installations, as well as for customers with information assurance (IA) needs.

This central repository stores registration for all system users, MCD 5000 Desksets and radio resources, along with system-wide information including alarms, logs and audits. The OMC server runs on the Red Hat® LINUX® operating system.

Providing user-level interface to the OMC, the Administrator Control Panel Client (ACP) PC allows local and remote administration access for system management activities. The ACP runs on Microsoft Windows 10 (64-bit) and is required for systems with an OMC.
The MCD 5000 Deskset system allows multiple desksets to dynamically switch to different MCD 5000 RGUs, giving you access to additional radios for expanded communications. Each MCD 5000 Deskset can connect to one radio at a time.

**EXAMPLE MCD 5000 DESKSET SYSTEM SHOWING 3 OPERATOR POSITIONS CONTROLLING UP TO 8 RADIOS**

**EACH DESKSET CAN SELECT ANY ONE OF THE 8 RADIOS BELOW**

- MCD 5000 DESKSET
- MCD 5000 DESKSET
- MCD 5000 DESKSET

**IP NETWORK**

- WAN / LAN

**CONVENTIONAL/TRUNKING/DIGITAL/ANALOG**

**TWO-WAY RADIO DEVICES**

- APX™ 7500 Multiband Consolette
- ASTRO® Consolette (W9):
  - ASTRO® Spectra™
  - ASTRO® Spectra Plus™
  - ASTRO® XTL™ 5000

**CDM Series Radios:**
- CDM 1550™
- CDM 1550 LS™
- CDM 1550 LS+™

**Dimetra TETRA Mobile Radios:**
- MTM5400
- MTM800E

**MCS 2000™ Model III Control Station**

- TRC Radios/Base-Stations/Adaptors
- 4-Wire E&M Radios
- MOTOTRBO XPR5550e
## SPECIFICATIONS

### MCD 5000 DESKSET

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Height: 4.17 in (106 mm)</th>
<th>Width: 10.35 in (263 mm)</th>
<th>Depth: 8.27 in (210 mm)</th>
<th>Weight: 3.97 lbs (1.8 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental</td>
<td>Operating temperature: 0 °C to 50 °C (32 °F to 122 °F)</td>
<td>Storage temperature: -40 °C to 80 °C (-40 °F to 176 °F)</td>
<td>Humidity: 5% to 95% @ +50° C (122° F), Non-Condensing</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>Input power: +10.8 to +13.2VDC, (+12 V nominal)</td>
<td>Dispassion: 12.5W Max. 37VDC to 57VDC. Powered via POE-PD, meeting 802.3af Standard for Powered Desksets class 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio</td>
<td>The end-to-end distortion is no more than 3% THD</td>
<td>The generated audio is no more than -50 dBm of Hum and Noise below the rate audio output</td>
<td>The crosstalk between any audio signals is no more than -65 dBm at 0 dBm transmit audio power</td>
<td></td>
</tr>
</tbody>
</table>

### MCD 5000 RADIO GATEWAY UNIT

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Height: 1.85 in (42 mm)</th>
<th>Width: 8.58 in (218 mm)</th>
<th>Depth: 10.39 in (264 mm)</th>
<th>Weight: 5.73 lbs (2.6 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental</td>
<td>Operating temperature: -30 °C to 60 °C (-22 °F to 140 °F)</td>
<td>Storage temperature: -40 °C to 80 °C (-40 °F to 176 °F)</td>
<td>Humidity: 5% to 95% @ +50° C (122° F), Non-Condensing</td>
<td></td>
</tr>
<tr>
<td>Power</td>
<td>Input power: +10.8 to +14VDC, (+12 V nominal)</td>
<td>Dispassion: 9W Max. 37VDC to 57VDC. Powered via POE-PD, meeting 802.3af Standard for Powered Desksets class 0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio</td>
<td>The end-to-end distortion is no more than 3% THD</td>
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<td></td>
</tr>
</tbody>
</table>

### Supported Radio Protocols

- RS-232 TTL using RJ-45 connector, SB9600, IP, 4W-E&M, TRC

### Regulatory-EMC

- FCC part 15 class A

### Safety

- EN60950-1

### Green Product

- RoHS, WEEE Mark

### Certified Standard Compliance Requirements

- CE Mark, FCC part 15 A Mark, UL Mark (for P.S. only) US federal government Environmentally Preferable Specification (EPP) Program

### Non-certified Standard Compliance Requirements

- CSA, UL, MOTOROLA W18 certification, CMM

### Vocoders

- G.711 and G.729

## MCD 5000 DESKSET SYSTEM CAPACITIES

<table>
<thead>
<tr>
<th>Maximum Number of Radio Resources</th>
<th>512</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Number of MCD 5000 Radio Gateway Units (RGUs)</td>
<td>128</td>
</tr>
<tr>
<td>Maximum Number of Radios per MCD 5000 Radio Gateway Unit (RGU)</td>
<td>4</td>
</tr>
<tr>
<td>Maximum Number of MCD 5000 Desksets</td>
<td>100</td>
</tr>
<tr>
<td>Maximum Number of Groups per MCD 5000 Deskset</td>
<td>20</td>
</tr>
<tr>
<td>Maximum Number of Users per MCD 5000 Deskset</td>
<td>8 (Non-OMC System)</td>
</tr>
</tbody>
</table>

To learn more about how the MCD 5000 Deskset System can help you implement powerful and flexible VoIP communications on your network, contact your Motorola representative or visit motorolasolutions.com/dispatch.

Motorola Solutions, Inc. 500 West Monroe Street, Chicago, IL 60661 U.S.A. motorolasolutions.com

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