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PRODUCT OVERVIEW

The MC3000 Digital Desktop Controller is available for local configurations and can control all standard radio functions of Motorola's ASTRO Digital Consolette, MSC 2000 Model III Control Station, iDEN M470 (LM3000), or CDM 1550 Series Radios.

One small, powerful deskset gives a world of flexibility:

- One model controls any one of the above radios and can be changed as the radio changes.
- All of the buttons from the radio are duplicated on the deskset with customized labels, so a customer who is familiar with the radio can easily use the deskset.
- Pick your audio accessory — handset, headset, footswitch, and deskmic are all compatible.
- Up to 31 units can operate in parallel for multiple dispatch operations.
- No RSS is required.

STANDARD FEATURES

SUPERVISORY TAKEOVER
The unit designated as supervisor is given priority over all other MC3000 Controllers, allowing priority messages to get through.

INTERCOM
Allows desktop controllers to communicate with, and monitor other remotes without keying the radio channel. Operators can have conversations without disturbing field users.

AUTOMATIC LINE LEVELING
Compensates for variations in the phone line and squelches background noise. Maintains clear, consistent volume levels without manual adjustment.

PARALLEL STATUS UPDATING
All parallel controllers are automatically updated when any single controller changes status. All users have the ability of monitoring the current system status.

MULTIPLE AUDIO ACCESSORIES

Users may select the handset with the Push-To-Talk (PTT) switch for private conversations or use the PTT switch and built in condenser microphone. Customers can also choose between a headset or desk mic and footswitch.

BACKLIT LCD DISPLAY

The MC3000 provides a 2-line by 20 character backlit display capable of showing all text messages generated by the radio control head. Displays important, easy to read information to the operator such as channel status, channel names, emergency ID's, and user ID's.

EMERGENCY RELAY

Emergency function from the ASTRO radio can trigger an external alarm to notify dispatcher of the emergency.

REVERSIBLE MOUNT HOUSING

Housing top can be rotated so that the unit can be operated on a desktop or wall mounted without the need for additional equipment. Allows greater flexibility in controller location.

LOCAL FUNCTION CONTROL

Users have easy to reach controls for handset volume, handset microphone sensitivity, and LCD viewing angle. Users can also access various menus for diagnostic and system parameter configuration via the controller keypad. Simple operation lets the user easily control local functions.

POWER SUPPLY

Each unit comes standard with a 110/220VAC 50/60 Hz power supply.

REAR PANEL CONNECTIONS

All input/output connections are conveniently located on the back panel of the controller. Provides quick and simple installation of the controller.

INDUSTRY STANDARD CONNECTIVITY

Most connections in the MC3000 system use industry standard Category 3 eight conductor cable (minimum requirement) and RJ45 Telco-Style connectors. The MC3000 remote configuration requires only 2 voice grade bi-directional telephone lines, not date grade lines. Reduces cabling cost and improves installation flexibility.
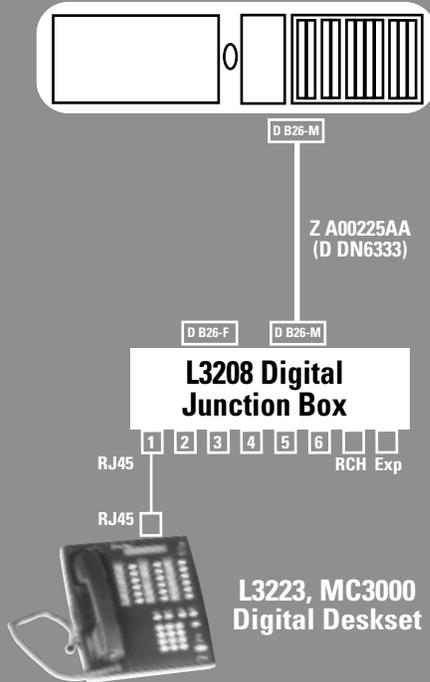
ACCESSORIES

DIGITAL JUNCTION BOX

One junction box is required for each radio being controlled. Each junction box supports six desksets. Boxes can be connected to support up to 31 desksets in parallel.
The ASTRO Consolette, MCS2000, and iDEN radios use the L3208 Digital Junction Box. The CDMI550 radios use the L3239 Digital Junction Box.
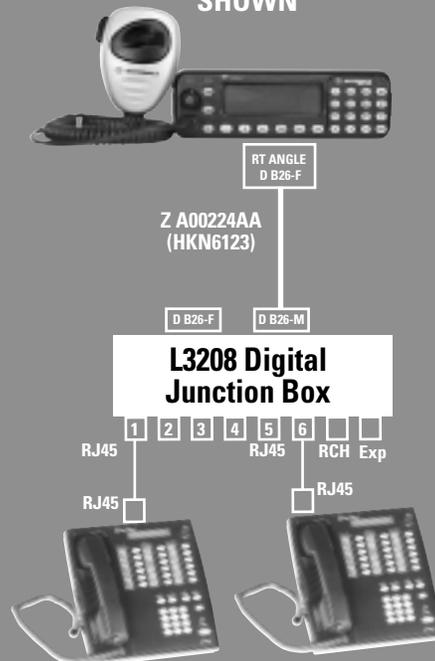
RACK MOUNT

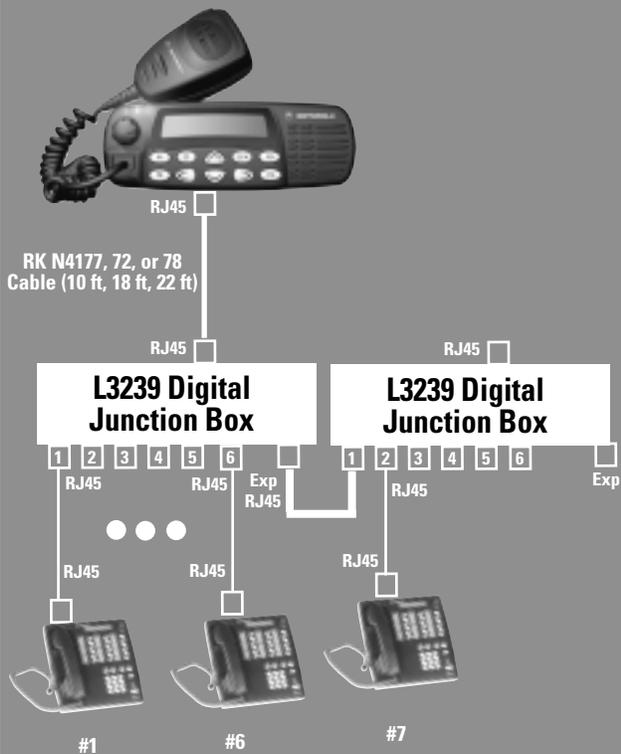Two junction boxes can be housed in a rackmount shelf.
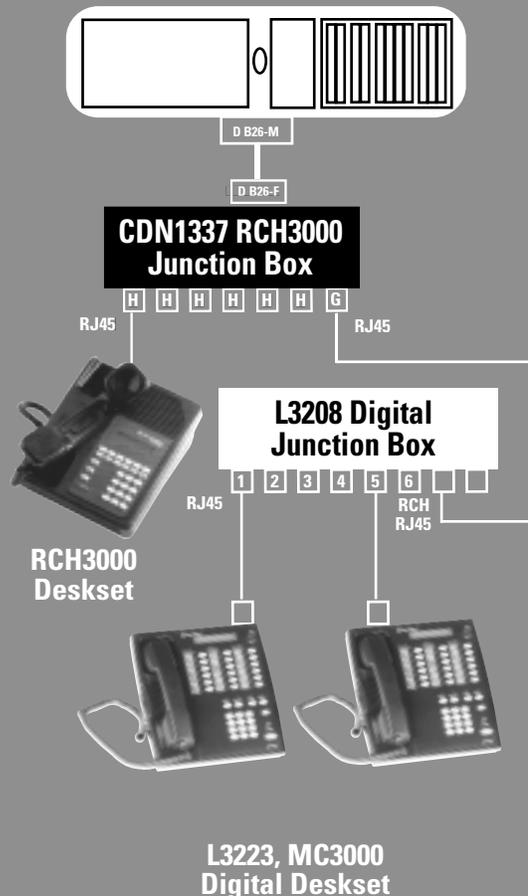
ASTRO Consolette, W9, SHOWN

D B26-M

Z A00225AA
(D DN6333)

D B26-F   D B26-M

**L3208 Digital
Junction Box**

1 2 3 4 5 6   RCH Exp

RJ45

RJ45

**L3223, MC3000
Digital Deskset**

**MC S2000 Model III
or
iDEN M470/L M3000
SHOWN**

RT ANGLE
D B26-F

Z A00224AA
(HKN6123)

D B26-F   D B26-M

**L3208 Digital
Junction Box**

1 2 3 4 5 6   RCH Exp

RJ45   RJ45

RJ45   RJ45

CDM1 550 Series Radio SHOWN
(Requires RL N4802 Remote Mount Kit, Not Shown)

RJ45

**RK N4177, 72, or 78
Cable (10 ft, 18 ft, 22 ft)**

RJ45   RJ45

**L3239 Digital
Junction Box**   **L3239 Digital
Junction Box**

1 2 3 4 5 6   Exp   1 2 3 4 5 6   Exp
RJ45   RJ45   RJ45   RJ45

● ● ●

RJ45   RJ45   RJ45

#1   #6   #7

ASTRO Consolette, W9, SHOWN

D B26-M

D B26-F

**CDN1337 RCH3000
Junction Box**

H H H H H H G

RJ45   RJ45

**L3208 Digital
Junction Box**

1 2 3 4 5 6   RCH
RJ45   RJ45

**RCH3000
Deskset**

**L3223, MC3000
Digital Deskset**

Notes:

1) Any of the Radios Shown Can Be Used in Any of the Configurations Shown,
  Except CDM1550 in the Mixed RCH & MC3000 Configuration.

2) Max Distance from Radio to Junction Box is **50 ft**.

3) Total Aggregate Cable Length from Junction Box(es) to MC3000 desk sets
  MUST be less than **5000 ft.**

SPECIFICATIONS

Color	Black
Dimensions	W 8.56″ x L 9.87″ x H 4.5″ approx
Weight	3 lb. approx
Operating Temp Range	32ºF to 122ºF (0ºC to 50ºC)
Humidity	95% at 122ºF (50ºC) non-condensing
Power Input	10.5 – 16 VDC maximum
Frequency Response	± 3dB from 300-3000 Hz @ 1kHz ref
Hum and Noise	Less than –50 dB below rated outputs
Audio Distortion	Less than 5% THD @ 1000 Hz (full volume)
Line Impedance	600Ω nominal to 10KΩ
Receive Audio Input	0.78 Vac or 80mV nominal auto leveled, -10 dB
(with autolevel)	to + 6dB nominal
Transmit Audio Output	0.78 Vac or 80mV nominal into 600Ω
Max. Number consoles	31 in parallel