



DISPATCH CONSOLE FOR DIMETRA NETWORKS

MOTOROLA MCC 7500C

The Motorola MCC 7500C IP Dispatch Console is a mission and business critical command and control solution that offers your organisation high quality, reliable communications.

KEY BENEFITS

Seamless integration with Dimetra IP Scalable and Dimetra IP Compact solutions

- Supports all mission critical architecture features and characteristics:
 - Agency partitioning
 - Prioritised emergency calls
 - Excellent audio quality
 - High reliability and availability
 - Centralised console management at network manager
- Robust digital IP logging solution
- Intuitive, customisable and easy to use Graphical User Interface
- Interoperability. The MCC 7500C console can be combined in the same dispatch centre with the CENTRACOM Elite

The dispatch solution consists of the following:

MCC 7500C IP DISPATCH CONSOLE OPERATOR POSITION

The MCC 7500C IP Dispatch Console operator positions connect directly to the radio system's IP transport network without gateways or interface boxes. Audio processing and switching intelligence for dispatch is performed within each software-based operator position, without additional centralised electronics. Console operator positions function as integrated components of the total radio system, enabling full participation in system level features and agency partitioning.

Operator position hardware consists of a monitor, personal computer equipped with a sound card, keyboard, mouse, speakers and audio accessories.

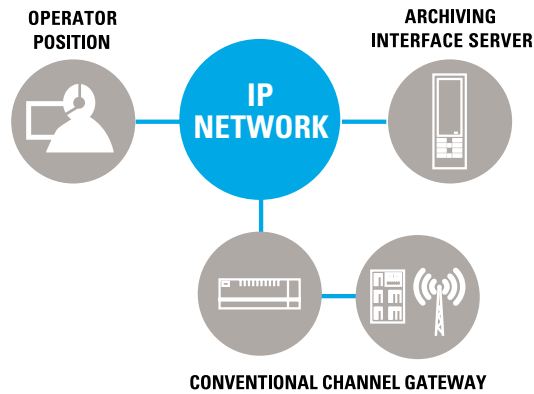
CONVENTIONAL CHANNEL GATEWAY (CCGW)

The CCGW enables trunked system users to incorporate conventional channels into their dispatch operations without a separate hardware network and channel banks. Conventional audio is transported between the dispatch consoles and the CCGWs by the same IP network that is used for the trunked audio. Each CCGW in the system can support up to four channels.

ARCHIVING INTERFACE SERVER (AIS)

The AIS is a digital logging interface used with the MCC 7500C IP Dispatch console(s) in a radio system. It is comprised of a personal computer. Each AIS works with an IP-based logging recorder. Audio and call control information is sent across the IP network between the AIS and recorder.

Distributed IP Architecture allows components to be located where needed for quickest maintenance or resolution of issues and best connectivity.



SPECIFICATIONS

SYSTEM COMPATIBILITY

Dimetra System Release 6.0 or later

VOCODER ALGORITHMS SUPPORTED

ACELP, G.728 (for Analogue Conventional)

MONITOR REQUIREMENTS WITH MOUSE OR TRACKBALL

17" minimum, 20" recommended

CONNECTIONS

DEVICE	CONNECTOR TYPE
One desktop microphone	XLR
Desktop microphone PTT	USB
Two headsets	USB
Two desktop speakers	XLR
One local logging recorder	XLR
One radio instant recall recorder	XLR
One footswitch	USB
Beacon	USB

SPEAKER MOUNTING OPTIONS

Desktop

DISPATCH CONSOLE CABLE LENGTHS

Speaker cable	2.5 m
Headset adapter cable	0.5 m
Headset cable to adapter	2.0 m
Microphone cable	2.0 m
Footswitch adapter cable	2.9 m
Footswitch cable to adapter	3.0 m
Beacon cable	1.8 m

SUPPORTED CONSOLE SITE LINK TYPES

Fractional E1, Single E1, Multiple E1s Redundant and non-redundant versions are supported.

SIZE AND WEIGHT

DEVICE	HEIGHT	WIDTH	DEPTH	WEIGHT
Tower PC	447 mm	178 mm	455 mm	11.7 kg
Speaker	226 mm	151 mm	142 mm	3.7 kg
	242 mm	151 mm	142 mm	3.7 kg
Microphone (Gooseneck at 90-180°)	without XLR connector	210-420 mm	150 mm	2.9 kg
	with XLR connector	210-420 mm	150 mm	2.9 kg
Beacon (no tube)	294 mm	70 mm	70mm	0.1 Kg
Rack mountable PC (1U) + 35 mm for Front handles	43 mm	427 mm	574 mm	12.3 kg

POWER CONSUMPTION AND THERMAL

DEVICE	POWER INPUT	THERMAL OUTPUT
Operator PC (2/3 loaded)	Max 6A at 100-127 VAC	985 BTUs/hour
Operator PC (2/3 loaded)	Max 3A at 200-240 VAC	985 BTUs/hour
AIS PC (2/3 loaded)	Max 5A at 100-240 VAC	682 BTUs/hour
Speaker Idle	5 VA at any voltage of 100, 110, 220 or 230 VAC	N/A
Speaker Max (full load)	50 VA at any voltage of 100, 110, 220 or 230 VAC	170 BTUs/hour
Desktop Microphone	Negligible	Negligible
Headset	Negligible	Negligible
Beacon	Negligible	Negligible

CONVENTIONAL CHANNEL GATEWAY (CCGW)

- Rack mountable, 1 rack unit high
- T1R1, T2R2, T4R4, T8R8, T12R12, T14R14 channels
- Each MCC 7500 CCGW router provides four RJ45 connector ports for interfacing to analog conventional base stations.
- Each port contains the following inputs and outputs:
 - 600 Ohm, balanced analogue audio input – To accept radio audio from the station
 - 600 Ohm, balanced analogue audio output – To send console transmit audio to the station
 - Input buffer – To detect Carrier Operated Relay (COR) closure in the station
 - 1 Amp, 24 VDC relay output – For relay keying of the station

CERTIFICATIONS

The various hardware elements of the Motorola MCC 7500C IP Dispatch Console product line are certified to meet the requirements for EN, UL, CSA and CE. The following are the specific regulations to which they were tested.

SAFETY

EN60950-1 2001
CSA 60950-1-03 / UL 60950-1

EMC IMMUNITY

EN61000-4-2: 2001-12
EN61000-4-3: 2008-06

EMC EMISSIONS

EN55022: 2006 (IEC/CISPR 22:1997 + A1:2000 + A2:2002)
EN55024: 1998 + A1:2001 + A2:2003 (IEC/CISPR 24:1997 + A1:2001 + A2:2003)
EN61000-3-2: 2006-10
EN61000-3-3: 2006-06
U.S.A. FCC Part 15, Class B
Japan VCCI Class B
Australia/New Zealand AS/NZS CISPR22:2006 Class B
China GB9254-1998 / GB17625.1-2003 Harmonic

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