DM-8208
DIGITAL MATRIX SYSTEM

DM-C8208

DM-S8208

DM-P8208

The DM-8208 Digital Matrix System, specially designed to be flexible and powerful is easy to configure, install and manage. With audio quality tailored for a wide range of applications including background/foreground and paging application, the DM-8208 Digital Matrix System provides complete control over the audio configuration and signal processing. Moreover, thanks to the Amp Link connections between the Controller and the amplifiers can be easily used to transport audio channels. With Amp Link, the entire system is simple and quick to install. Basic user controls such as volume and source selection within a zone can be operated with ease by the wall mounted panel controller DM-P8208.

More advanced users who need control over multiple zones can use the Graphical User Interface (GUI) for PC or smart devices. The DM-C8208 control unit can be controlled via Ethernet, making them easy to integrate with a wide range of building management and control systems. With the remote paging station DM-S8208, users can select parts of the desired zone or the entire area to broadcast live calls and local music source.

DM-C8208

- Digital Matrix Controller
- 8 IN x 8 OUT channels digital audio matrix
- 8 balanced mic/line inputs and 8 balanced line outputs
- Powerful DSP Processor for every channel
- 48V Phantom power for 8 inputs
- Connection up to 8 Paging station DM-S8208
- Connection up to 8 Wall Panels DM-P8208
- 8 channels audio link
- 12 x 6 General purpose I/O contacts.
- Calendar format scheduler
- Remote Control by GUI for PC and smart devices
- TCP/IP control port
- 1 RU

DM-S8208

- Digital Matrix Station
- Gooseneck condenser microphone
- Power ON/OFF button, ALL button , VOLUME /TALK button,
- CHIME button, 8 Group buttons, 8 Preset buttons, 16 output channels buttons
- Priority functions
- Powered by DM-C8208 (24VDC) or by 24VDC dedicated socket
- Daisy-chain Through LINK RJ45 terminal
- AUX input with volume control
- Chime volume control

DM-P8208

- Digital Matrix Panel
- Aesthetic design
- Rotary encoder with push button
- LCD Display
- Powered by DM-C8208 (24VDC)
- Daisy-chain Through LINK RJ45 terminal
- AUX input with volume control

TECHNICAL SPECIFICATIONS

DM-C8208 Digital Matrix Controller

DSP

Signal processing /CPU	32-bit ARM CORTEX A9

AUDIO SPECIFICATIONS

Frequency response	20Hz to 20kHz, +/-3dB
THD+Noise	<0.01% @ 1kHz
Crosstalk	>80dB @ 1kHz

MIC/LINE INPUTS

Number of Inputs	8 balanced mic/line level
Connectors	3.5mm terminal blocks
Input Sensitivity	-10dBV (LINE)/-55dBV (MIC)
Maximum Input Level	+5.5dBV(+7.7dBu) at THD 0.1%
Phantom Power	+48VDC

PAGING INPUTS

Number of Inputs	2
Connectors	RJ45

WALL PANEL

Number of Inputs	1
Connectors	RJ45

OUTPUTS

Number of Outputs	8 balanced line level
Connectors	3.5mm terminal blocks (available Audio Link conncection 2xRJ45)
Nominal Output Level	0dBV
Maximum Output Level	+16.5dBV(+18.7dBu)

GENERAL PURPOSE I/O

inputs	12 logic (configurable by GUI)
outputs	6 logic

INDICATORS

LEDs	Link/Ethernet/DM-P/DM-S/Stand-by
Power	Power ON / OFF Button

CONTROL

Software	GUI for PC / App for iOS/Android
Ethernet	10/100/1000 Mbps, 1xRJ45

CONTROL GENERAL

Power Supply	AC 100-240V, 50/60Hz or +24VDC
Operating Temperature	-10° to +40°
Storage Temperature	-20° to +60°
Cooling	Convectional with ventilation holes
Net Dimensions (WxHxD)	482 x 44 x 300.5mm (19" wide, 1RU high)
Mounting	Stand-alone, 19"rack
Net Weight	3.4 kg / 7.49 Lb

DM-S8208 Digital Matrix Station

AUDIO SPECIFICATIONS

Audio output	1.2V +/-200mV balanced
Input Sensitivity/impedance	MIC: -60dB/600Ohm (balanced) AUX: -10dB/10KOhm (unbalanced)
Frequency response (+/- 3dB)	MIC: 100Hz-15KHz ; AUX: 20Hz-20KHz
T.H.D	MIC: < 0,5% ; AUX: <0,2 %
S/N	MIC: >50dB ; AUX: >80dB

INPUTS / OUTPUTS

Aux IN	XLR connector
Mic IN	3,5mm jack
Link IN	1x RJ45
Link OUT	1x RJ45

MICROPHONE SPECIFICATIONS

Directional Characteristics	Cardioid Electret Condenser
Frequency Response	30Hz-20KHz
Output Impedance	200Ohm
Sensitivity	-40dB±2dB(0dB=1V/Pa at 1KHz)
Current Consumption	Max. 0.5mA

GENERAL

Control Protocol	RS-485
Power Supply	24VDC 500mA (provided by DM-C8208 or external PSU)
Operating Temperature	-10° to +40°
Storage Temperature	-20° to +60°
Net Dimensions (WxHxD)	264 x 135 x 62mm / 10.39 x 5.31 x 2.44"
Net Weight	1020 g / 2.24 Lb

DM-P8208 Digital Matrix Panel

INPUTS / OUTPUTS

Link IN	1x RJ45
Link OUT	1x RJ45

GENERAL

Control Protocol	RS-485
Power Supply	24VDC 15mA (provided by DM-C8208)
Operating Temperature	-10° to +40°
Storage Temperature	-20° to +60°
Net Dimensions (WxHxD)	115 x 78 x 17mm / 4.52 x 3.07 x 0.66"
Net Weight	110 g / 0.24 Lb