MU 9186

MASTER UNIT

DESCRIPTION

DXT 9000 is the logical evolution to the RCF DXT Active Matrix solution range. To design DXT 9000, RCF has developed a digital multi-platform where PA-EVAC systems join PRO-INSTALL systems in a completely scalable and versatile range of configurations and solutions.
It allows very flexible system architecture, driving in the same way professional amplifiers and speakers, 100V amplifiers and commercial audio or EN 54-24 voice alarm speakers equipped with line transformers.
In this architecture, MU 9186 is the MASTER UNIT without power on-board: it is used when the system requires a high output power and/or a larger number of zones, and can be obtained adding one or more power amplifiers model UP 9501 (1 x 500W), UP 9502 (2 x 250W) or UP 9504 (4 x 125W), connected through the dedicated RCF-Flexicomm data-link port.

MAIN FEATURES

- Fully monitored in compliance with EN 54-16/2008 standard.
- Digital matrix unit is 8x6 configurable, with routing to any output channel, is also available with integrated power amplifiers.
- Priority evacuation messages resident on main control unit protected and monitored memory. Simultaneous delivery is possible.
- 12 configurable GPI and configurable 8 GPO available on each unit.
- Control Center PC application to configure and control all system's parameters.
- Front panel control with LCD display and 8 buttons.
- Efficient Digital Signal Processors on inputs and outputs; Parametric EQ, High and Low Pass Filters, Compressor / Limiter, Level controls provided on inputs and outputs.
- The EQ window provides 3-band equalizer for the Background input and the Monitor and Auxiliary Outputs. 5-band equalizer for the Paging input, Auxiliary inputs and BUS Output.
- For all input channels (EVAC microphone, paging stations, microphones and analog inputs) the Gain, EQ and Dynamic screens will appear in the DSP EDITOR.
- Fully parametric high and low frequency filters are available for all the inputs and for the Auxiliary Output.
- Compressor available (Threshold, Attack, Release and Ratio) on the Auxiliary inputs and BUS Output.
- Dual power supply, allowing both AC and DC operation.
- RS 485 serial port for optional program remote control and volume adjustment.

MAIN APPLICATIONS

- Shopping centers
- Hospitals
- Railway stations
- Airports
- Halls
- Schools
- Stadiums
- Skyscrapers

PROVIDED OPTIONS

- Audible warnings
- Manual silencing of the voice alarm condition
- Manual reset of the voice alarm condition
- Output to fire alarm devices
- Voice alarm condition output
- Indication of faults related to the transmission path to the CIE
- Disablement condition
- Voice alarm manual control
- Interface to external control device(s)
- Emergency microphone(s)
- Redundant power amplifiers

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SPECIFICATIONS

MAIN IN, FALL BACK INPUT audio inputs	
- Input sensitivity:	–50 ÷ +6 dBu
- Frequency response (±3 dB):	20 Hz ÷ 20 kHz
- Input impedance (1 kHz):	25 kΩ
- Signal / noise ratio:	104 dB
- FALL BACK command voltage:	24 V dc
PAGING IN (1, 2) audio inputs	
- Input sensitivity:	–60 ÷ –20 dBu
- Frequency response (±3 dB):	200 Hz ÷ 16 kHz
- Input impedance (1 kHz):	4 kΩ
- Signal / noise ratio:	84 dB
- Paging console power supply:	24 ÷ 28 V dc
AUX INPUT	
- Input sensitivity:	–50 ÷ +6 dBu
- Frequency response (±3 dB):	20 Hz ÷ 20 kHz
- Input impedance (1 kHz):	25 kΩ
- Signal / noise ratio:	94 dB
BGM (1, 2, 3) audio inputs	
- Input sensitivity:	–50 ÷ +6 dBu
- Frequency response (±3 dB):	20 Hz ÷ 20 kHz
- Input impedance (1 kHz):	25 kΩ
- Signal / noise ratio:	90 dB
MONITOR OUT, AUX OUT, MOH audio outputs	
- Max. output level:	1 W on 8 Ω
- Output impedance (1 kHz):	60 Ω
- Frequency response (±3 dB):	20 Hz ÷ 20 kHz
- Distortion (THD+N @1W, 1kHz):	≤ 0.01%
GPI (logic inputs)	
- Monitored GPI number:	8
- Photo-coupled GPI number:	4
GPO (logic outputs)	
- Max. applicable voltage:	24 V dc
- Max. current:	0.3 A
RCF FLEXCOM BUS	
- Channels:	4
- Resolution:	24 bits
- Sampling frequency:	44.1 kHz
24 V DC output	
- Max. output current:	100 mA
DATA LINK	
- 1 LAN ETHERNET connector	
- 2 PAGING IN RJ 45 ports	
- 1 RS485 EUROBLOCK connector	
- 2 RCF FLEXCOM BUS EUROBLOCK connectors	
ELECTRICAL SPECS.	
- Operating voltage:	100÷240 V ac (50-60 Hz), 48 V dc
- Max. consumption (power):	60 W
- Operating temperature:	–5 ÷ +50 °C (23 ÷ 122 °F)
- Relative humidity:	20 ÷ 90% (non-condensing)
MECHANICAL SPECS.	
- Dimensions (w, h, d):	485 mm, 88 mm, 365 mm (19” rack - 2 units)
- Net weight:	6.9 kg

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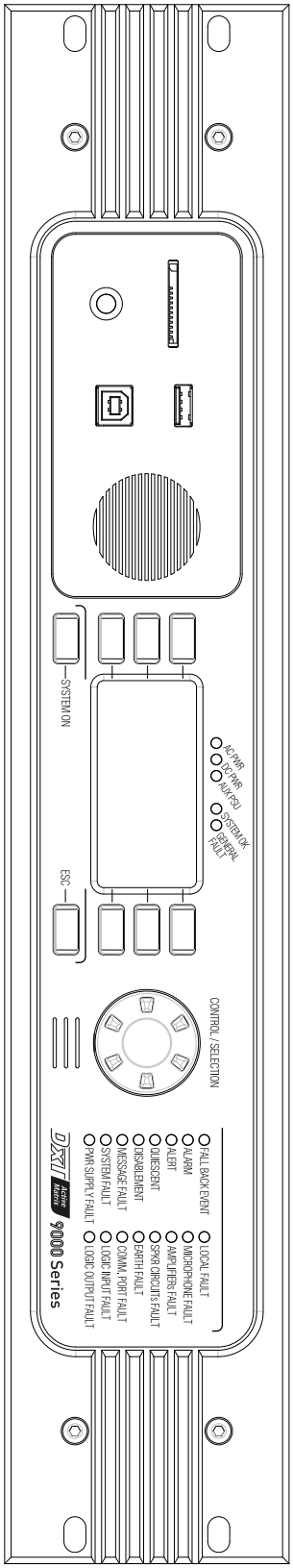
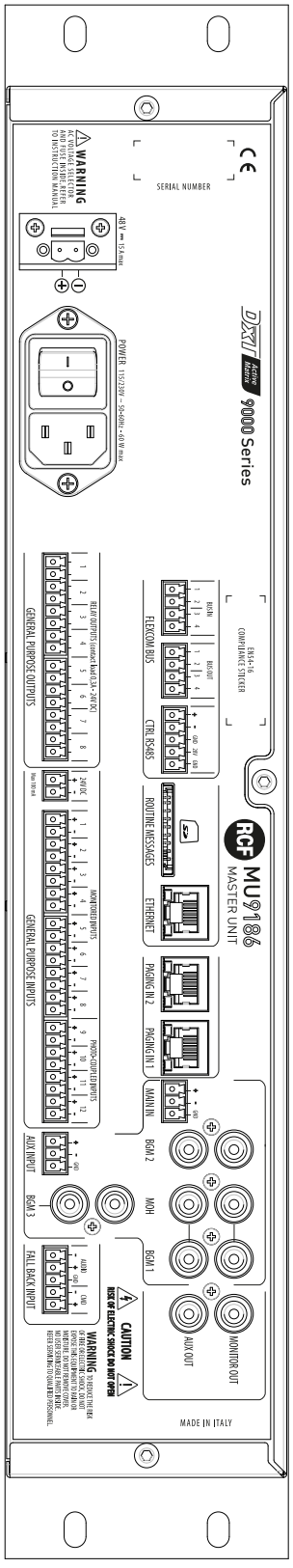
FRONT PANEL & REAR PANEL





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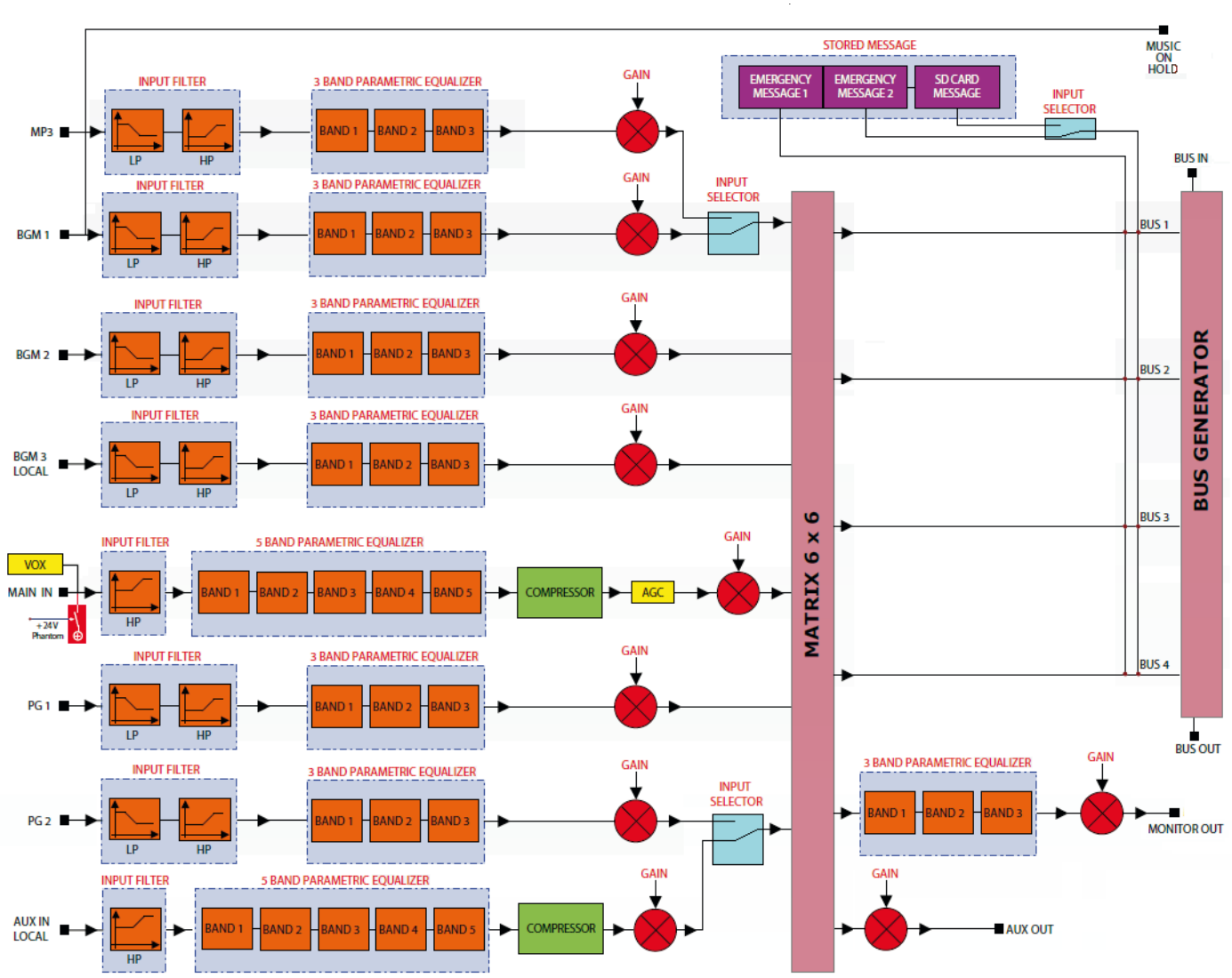
SCHEMATICS



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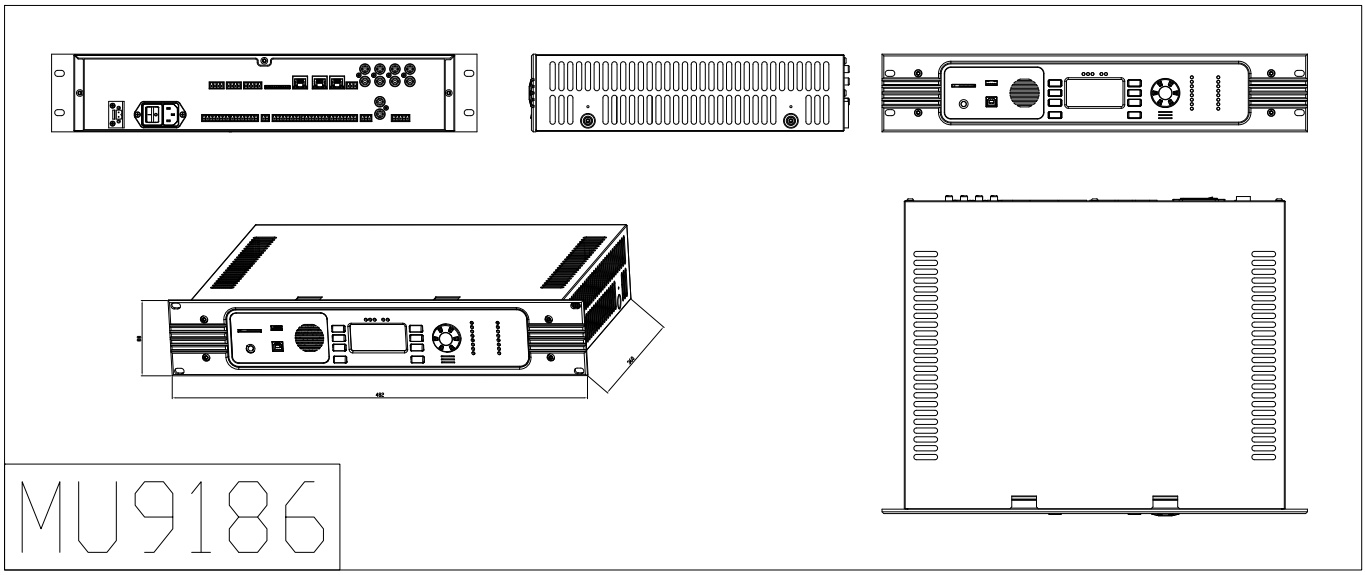
PART NUMBERS

171.70.160

1.0-I-A

DIMENSIONS (All data are in mm)



CERTIFICATIONS AND APPROVALS

- EN 54-16/2008
- CE: it complies with European Community 2006/95/CE LVD and 2004/108/CE EMC.
- Electromagnetic immunity according to IEC EN 55013+A1+A2, IEC EN 55020+A2+EC, EN 61000-3-2, EN 61000-3-3+A1.
- Electronic apparatus safety requirements according to IEC EN 60065:2002.

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