

## Audio Switch Matrix ASM 24/24/4/A

The Audio Switch Matrix (ASM) is designed for integration into systems in which signal sources are to be connected with different communication devices. The ASM manages and monitors control signals, audio signals and/or data lines in communication systems. The signal direction is bidirectional to and from the terminals and devices. The ASM covers the frequency range from DC to 1 MHz.



ASM 24/24/4/A

Up to 24 terminals and up to 24 devices can be connected to the ASM. Four line pairs are allocated to each terminal or device so the unit provides a line capacity of 96 line pairs (192 lines). Transmitter and receiver can be assigned independently.

## General Data

Parameter	General Data
Dimension slide-in unit (w x h x d)	19" 3 u, 360 mm
Weight	approx. 8,5 kg
Colour of Front Panel	RAL 7035 (light grey)
Labeling	English
Mains Supply	85 – 264 Vac, 47 - 63 Hz
Power Consumption	10 VA
Ambient Temperature	-10°C ... +40°C (IEC 60945)
Storage Temperature	-20°C ... +70°C (IEC 60945)
Relative Humidity <sup>(1)</sup>	95%
Protection	IP x3 (IEC 60529, Front Panel)
Vibration	IEC 60068-2-6
Shock	IEC 60068-2-27
EMC / EMI	MIL STD-461E
MTBF	> 15.800 h (MIL-STD 217, NS, 25°C)
MTTR (replacement of subunits)	0,5 h

## Technical Data

Parameter	Data
Number of Inputs	24 (D-Sub, 9 pin, male, 4x2 lines)
Number of Outputs	24 (D-Sub, 9 pin, female, 4x2 lines)
Input Level AC	max. 30,0 Vpp
Input Level DC	max. $\pm 15,0$ V, max load 30 mA
Interface protection (terminals and devices)	2 kV 1.2/50 $\mu$ s
Frequency Range	DC ... 1 MHz
Ron Resistance	typ. 60 $\Omega$ / per line
Switching Time	typ. 1 ms
Insertion Loss	< 1,5 dB (600 $\Omega$ )
Off Isolation	f < 10 kHz: > 60 dB f > 10 kHz: > 46 dB
Crosstalk	f < 10 kHz: > 60 dB f > 10 kHz: > 46 dB

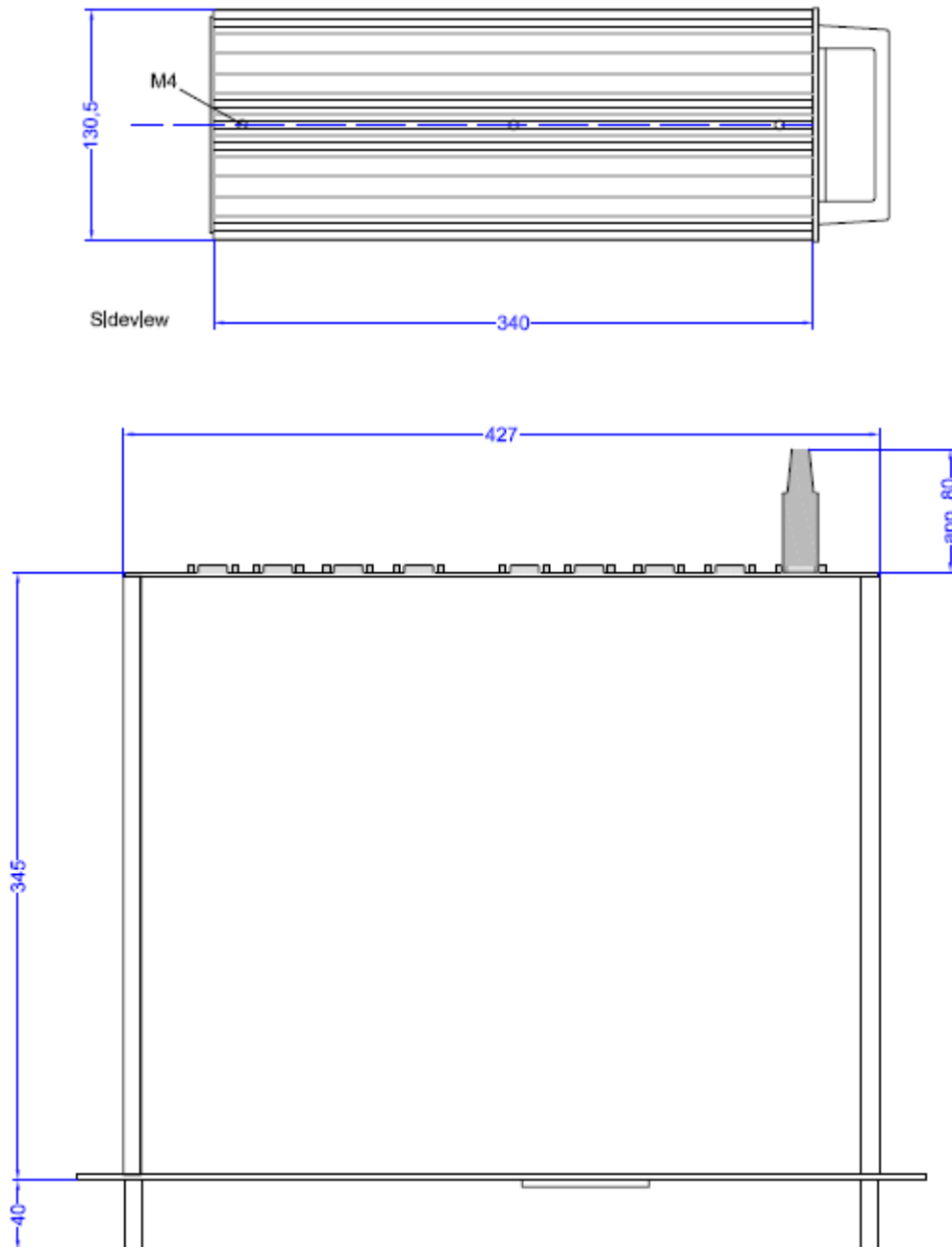


Rear View

Note 1:  
 Relative humidity valid for the front panel, non-condensing

Data given without tolerance are typical values.  
 Design and specification are subject to change without prior notice, errors excepted.

## Dimensions



## Spare Parts

Designation	Type	Part No.	Remark
Motherboard	MB ASM 24/24/4	0050.1010.80	
Switch Board	SB 8/8	0050.1020.80	
Terminal Board	TB A	0050.1030.80	
Control Unit	CU F	0050.1040.80	
Keypad Board	KB F	0028.0557.80	
Display Unit	DU F	0050.1060.00	
Power Supply Unit	PS C	0008.7473.00	
Fuse	6,3 AT/250V	E.0248	

## Options

Option	Description
LAN	ASM 24/24/4/B LAN Interface 10/100 instead of RS232/RS422 remote control interface
Pantone 429C	ASM 24/24/4/Pantone429C Colour of front panel in Pantone 429C
Colour of Front Panel	ASM 24/24/4/RAL.... RAL .... colour code to be specified by customer