

Product Information

Audio Switch Matrix ASM Series

The Audio Switch Matrix ASM series 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 terminals and devices. The ASM covers the frequency range from DC to 1 MHz.



ASM Series

The equipment is furnished into a 19-inch 3 HU slide-in unit providing up to 24 terminals and up to 24 devices to be connected to the ASM.

Four line-pairs are allocated to each terminal or device. The ASM provides capacity of 96 line-pairs (total 192 lines). Transmitter and receiver can be assigned independently.

The Audio Switch Matrix is controlled and monitored in local operation from the front panel and in remote operation through a serial (ASM 24/24/4/A) or LAN interface (ASM 24/24/4/B).

An integrated control unit monitors the distributor system. Failure of a subunit can also be signaled by an acoustic signal. The switching configuration is stored so that after a mains failure or after switching off the matrix the previous switching conditions are automatically restored.

General Data

Parameter	General Data
Dimension slide-in unit (w x h x d)	19" 3 HU, 360 mm
Weight	approx. 8,5 kg
Colour of Front Panel	RAL 7035 (light grey)
Labelling	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 ⁽¹⁾	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

Connections			Device Part B Allocation
NO	TERMINAL	DEVICE PART A	
01	Terminal 1	VHF-Transceiver 1	Disconnect
02	Terminal 2	Receiver 1	Transmitter 5
03	Terminal 3	Receiver 2	Transmitter 7
04	Terminal 4		Transmitter 8
05	Terminal 5		Transmitter 11
06	Terminal 6	Receiver 5	Transmitter 12
07	Terminal 7	Receiver 4	HF-Transceiver 1
08	Terminal 8	Receiver 10	UHF-Transceiver 2
09	Terminal 9	HF-Transceiver 2	
10	Terminal 10		
11	Terminal 11	VHF-Transceiver 3	
12	Terminal 12	Receiver 6	
13	Terminal 13	HF-Transceiver 3	
14	Terminal 14		
15	Terminal 15		
16	Terminal 16	Receiver 3	
23	Terminal 23	VHF-Transceiver 2	
24	Terminal 24	UHF-Transceiver 1	

Select Terminal ↓↑, Part A/Part B ←→ ↓↑ >> Enter or ESC

Connections Screen

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 μ s
Frequency Range	DC ... 1 MHz
Ron Resistance	typ. 60 Ω / per line
Switching Time	typ. 1 ms
Insertion Loss	< 1,5 dB (600 Ω)
Off Isolation	f < 10 kHz: > 60 dB f > 10 kHz: > 46 dB
Crosstalk	f < 10 kHz: > 60 dB f > 10 kHz: > 46 dB

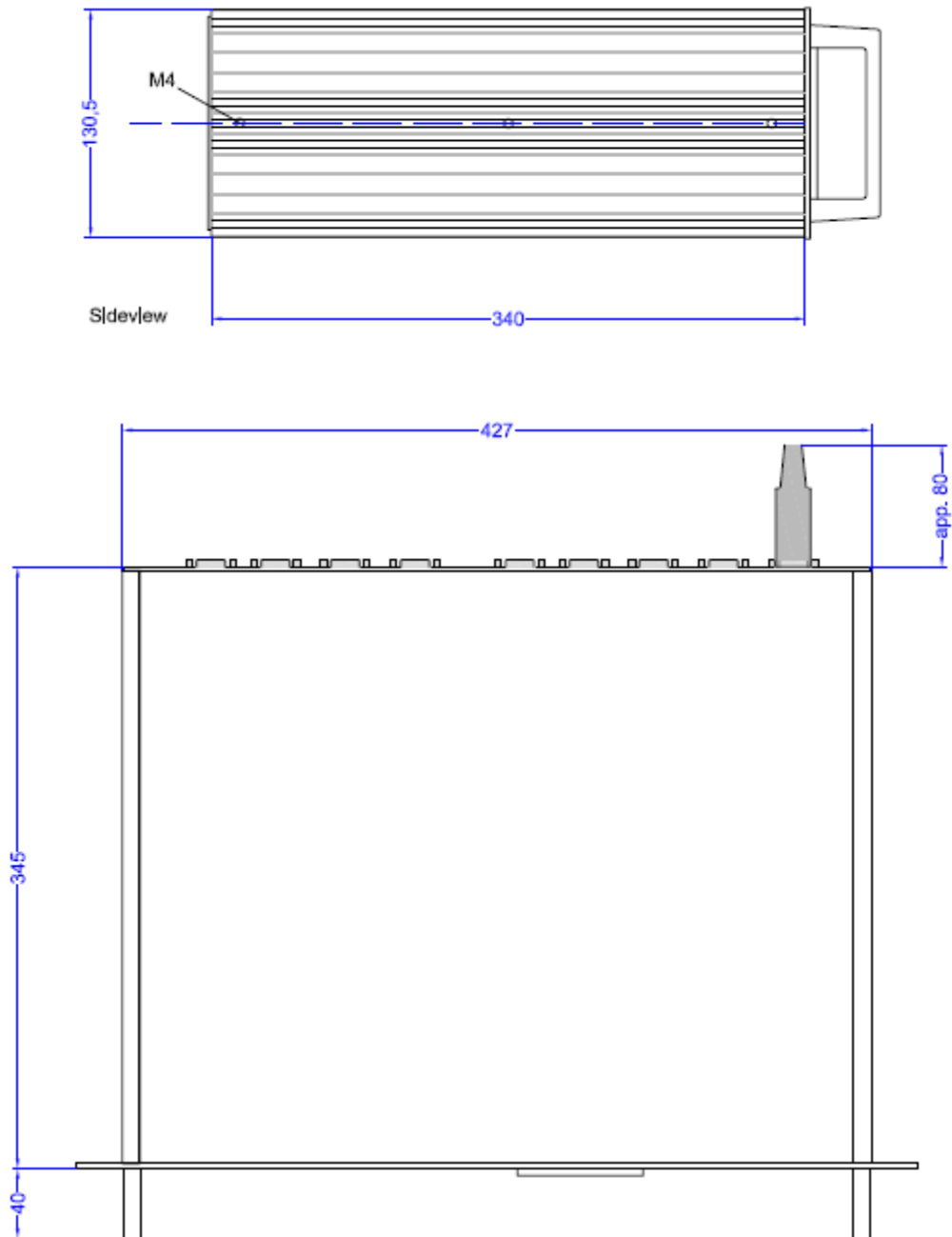


Rear View

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



Scope of Supply

Pos.	Description
1	Audio Switch Matrix ASM ... (type designation depends on configuration)
2	Accessory Set ZS 69
3	USB stick with product documentation in pdf format

Accessories

Type Designation	Part No.	Description
ZS 69	0028.3769.00	Accessory set for use with ASM series consisting of <ul style="list-style-type: none"> - 2 ea. Fuse 6.3 AT/250V/T, Part No. E.0248 - 4 ea. Philips head screw M6x14, Part No. G.0008 - 1 ea. ICE power cable, Part No.KA.0171

Variants and Order Information

Type Designation	Part Number NSN	Description
ASM 24/24/4/A	0050.1100.00	Serial remote-control interface Front panel RAL 7035
ASM 24/24/4/B	0050.1300.00	Network LAN remote-control interface Front panel RAL 7035
ASM 24/24/4/Pantone 429C	0050.1200.00 5820-12-386-9676	Serial remote-control interface Front panel Pantone 429C

Options

Option	Description
Colour of Front Panel	ASM 24/24/4/RAL.... RAL colour code to be specified by customer

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	