

# Audio Matrix Switch – KSA0731

## Audio (0.02 – 20 kHz)



### TECHNICAL DATA @ 25°C

<b>Part No.</b>	<b>1500037</b>
Number of inputs	16
Number of outputs	16
Architecture	Non-blocking, full-fan out Summing, full-fan in Switching: Semiconductor switches
Frequency range	0.02 – 20 kHz
Gain [dB]	0 ± 1
Gain Control	
IN #01-16	± 20 dB
OUT #01-16	± 20 dB
Loading effect [dB]	1 max.
Distortion [%]	0.5 max. (0dBm, 1kHz)
Isolation [dB]	
in/in	70 min.
in/out	65 min.
out/in	70 min.
...out/out	70 min.
Crosstalk [dB]	70 min.
Input level [Vpp]	4 max.
Switching speed [ms]	20 max.
Impedance [Ω]	
IN#01-08	600
IN#09-16	32, 50, 400, 600, 1k, 2k2, 100k (selectable)
...OUT#01-08	600
OUT#09-16	32, 50, 400, 600, 1k, 2k2, 100k (selectable)

Connectors	
IN #01-08	BNO-f (balanced)
IN #09-16	BNC-f (unbalanced)
...OUT #01-08	BNO-f (balanced)
OUT #09-16	BNC-f (unbalanced)
Additional function	
Push-To-Talk	8x SPDT relays
Contact rating	Nominal switching capacity (resistive load): 2 A 30 V DC, 0.5 A 125 V AC Max. switching power (resistive load): 60 W, 62.5 VA Max. switching voltage: 220 V DC, 125 V AC Max. switching current: 2 A
Connector	D-Sub, female, 25 poles
Local control	LC display and keyboard, front panel
Remote control	RJ45 Ethernet port 10/100 Base T. TCP/IP & UDP, GUI (browser interface) RS-232/422/485 interface (selectable)
Power supply	20-30 V DC
Power connector	XLR, 3-pin plug
Power consumption	0.6A @ 24V DC

Ersteller: MG / Freigabe: MG  
AF31 / Ausgabe 25FEB2019



Temperature range	
Operating	0 ... +40°C
Storage	-10 ... +60°C
Colour:	Front panel: RAL7032
Attached hardware	Power cord Operating manual
Dimensions (wxhxd)	483mm x 89mm x 380mm (19" drawer, 2U)
Weight [kg]	5.5

#### Features:

- Balanced and unbalanced in and out signals
- Permanent monitoring of internal temperature, modules and switch positions
- Selectable impedances

### STANDARDS / APPROVALS

- MIL-STD-461F
- ✓ RE102 radiated emission
- ✓ RS103 radiated susceptibility
- ✓ CE102 conducted emission
- ✓ CS101 conducted susceptibility
- ✓ CS114 conducted susceptibility
- ✓ CS115 conducted susceptibility
- ✓ CS116 conducted susceptibility
- MIL-STD-810F
- ✓ Method 500.4 low pressure, procedure II
- ✓ Method 501.4 high temperature, procedure II
- ✓ Method 502.4 low temperature, procedure II
- ✓ Method 507.4 humidity, 240h
- ✓ Method 514.5 vibration
- ✓ Method 516.5 shock

### OPTIONS

The following options are available:

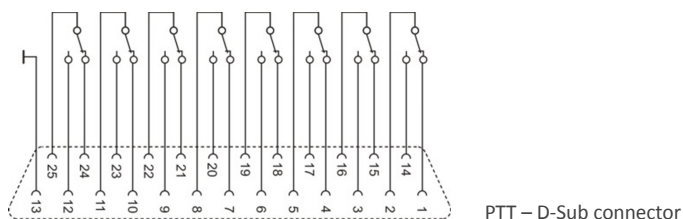
- 115/230 VAC power supply
- Other impedances
- Remote control software
- SNMP (protocol version 1)

### DESCRIPTION

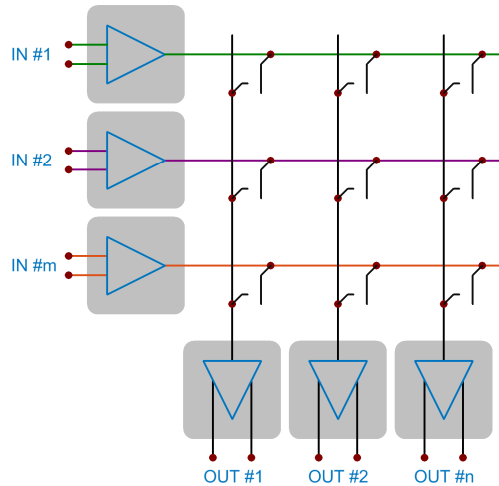
**novotronic** Audio Matrix Switches are designed to route either balanced or unbalanced audio signals. The KSA0731 provides routing of 16 audio sources to a maximum of 16 zones, and includes a wide variety of features. The Matrix Switch completely eliminates the need to constantly move around audio input and output cables.

Several ins and outs offer impedance switching. As a result different sources and loads can be used. Configuration is achieved by using the internal GUI.

The KSA0731 requires 20-30VDC power to operate. The system supports comes with an Ethernet control interface, allowing setup flexibility and easy remote control. LCD and keyboard feature a local control. The device features a Push-To-Talk (PTT) function. Therefore 8 dry contacts (SPDT) are available. Each contact can be managed via LAN or manual control.



The KSA0731 was developed for mobile use in vehicles.



Typical m x n Matrix Switch

## APPLICATIONS

- Military intercommunication in mobile platforms
- Broadcast studio signal switching
- Test laboratories

## ABOUT US

**novotronic** is a Germany-based electronics engineering company. **novotronic** specialises in meeting the needs of government and defence, telecommunication, broadcast and aerospace. We have about 25 years experience producing state of the art technology for your applications.

## OUR SKILLS

**novotronic** develops and manufactures technically sophisticated products. As a **certified aerospace and defence company novotronic** operates a quality management system in accordance with ISO 9001:2015 and EN 9100:2018 (equivalent to AS 9100D and JISQ 9100:2016 including ISO 9001:2015).