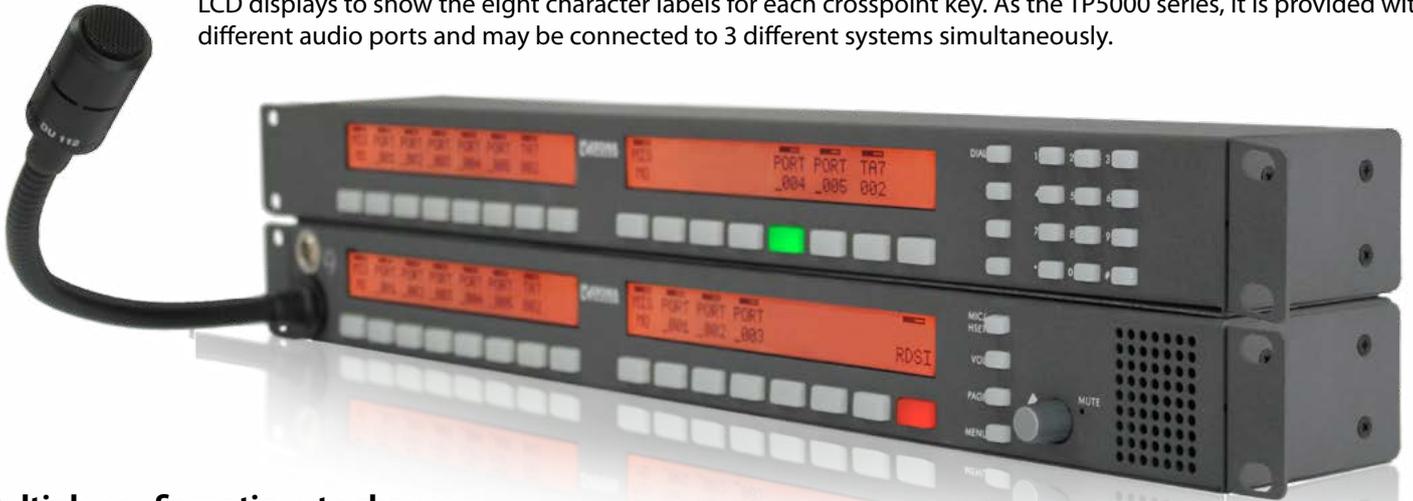


The 4000 series panels, with the TP5000 series as core, offers an alternative user interface: two high performance LCD displays to show the eight character labels for each crosspoint key. As the TP5000 series, it is provided with 4 different audio ports and may be connected to 3 different systems simultaneously.



Multiple configurations to choose

The 4000 series comprises of a 1RU high 16-key rack panel (TP4016), which can be expanded by adding the EP4016 expansion kit, with 16 additional keys, two LCDs and a dialling pad in only one extra RU high. A desktop version (TP4216) is also available.

It is also possible to set up to four different pages on the key configuration, multiplying by four the possible crosspoints available on the panel. The keys can be easily configured to work as LATCH or PTT, as well as a combined mode.



TP4216 Desktop panel

Wide connection possibilities

The TP4000s are provided with 4 different audio ports: 2 digital ports*, 1 IP port and 1 analogue port, what makes them compatible with any KROMA intercom matrix.

Additionally, a GPIO audio working with voltage and contact closure is available.

*The TP4216 desktop panel includes one digital port only.

Internal audio matrix

Given the wide choice of audio ports, the panels include a small internal audio matrix which can be configured from the menus on the LCDs or from the Crossmapper software.

Different applications of this feature are possible; for instance, a digital port and the analogue port from a panel may be used as an A/D interface to the matrix by setting a permanent IFB.



Front and rear view of TP4016



Front and rear view of EP4016

Technical specifications

Analogue connection	SUB-D9 male connector.
	Nominal level: normal 2 dBv / Maximum 10 dBv
	Impedance: 600 Ω output, 15 KΩ input
	Bandwidth =150Hz-12KHz Quality: SNR>80dB, THD < 1% at 4dB
Digital connection	RJ45 conector
	Sampling: 44.1 KHz
	Audio 16 bits + 8 bits data KROMA Intercom protocol at 2Mb/s
Net connection	RJ45 connector
	Ethernet 10/100BT, Baud rate 10Kb/s
	TCP/IP protocol, UDP socket, with KROMA PRTP
GPIO	RJ11 connector
Expansion port	GPI +5V, GPO contact closure
	RJ45 connector, RS232
Control	USB connector
Headset	Tini-QG 4 pins (mini-XLR type)
Power consumption	Normal: 10W / Max 22W
Power supply	External AC/DC adapter. Input: 110-240V.
TP4016 user panel	
Dimensions	44.4 mm(1RU) x 440mm (19" rack) x 77mm. 1.6 Kg
TP4216 user panel	
Dimensions	80 mm x 265 mm x 180 mm. 1.6 Kg

EP4016 exp. panel	
Expansion port	RJ45 connector, RS232
Power consumption	Normal: 10W / Max 22W
Power supply	External AC/DC adapter. Input: 110-240V.
Dimensions and weight	44.4 mm(1RU) x 440mm (19" rack) x 77mm. 1.6 Kg

Ordering info

User panels	
TP4016R01 (rack)	2 dig, 1 Net, 1 an. ports; 1 GPIO port; 16 keys and 2 LCD displays.
EP4016R01 (rack)	Additional 16 keys and 2 LCD displays
TP4216R01 (desktop)	1 dig, 1 Net, 1 an. ports; 1 GPIO port; 16 keys and 2 LCD displays. 2 headset ports (front and rear)
Headsets	
MC7000X09	One-ear headset with mic.
MC7000X10	Two-ear headset with mic.
MC7000X11	Beyerdynamic closed two-ear headset with mic.
MC7000X07	Ear plug (no microphone)