



The 3000 series is an economic alternative to the 4000 and 5000 user panels. The keys are identified with printed labels generated by Crossmapper software. With two digital and one analogue audio ports, the panels offer advanced functionalities at an affordable price.



## Multiple configurations to choose

The 3000 series comprises of a 1RU high 16-key rack panel (TP3016), 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 (TP3216) is also available.

It is also possible to set up to two different pages on the key configuration, multiplying by two 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.



**TP3216 Desktop panel**



**Front and rear view of TP3016**

## Wide connection possibilities

The TP3000s are provided with 3 different audio ports: 2 digital ports\*, and 1 analogue port, what makes them compatible with any KROMA intercom matrix.

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

\*The TP3216 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 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 connector Sampling: 44.1 KHz Audio 16 bits + 8 bits data KROMA Intercom protocol at 2Mb/s
GPIO	RJ11 connector GPI +5V, GPO contact closure
Expansion port	RJ45 connector, RS232
Control	USB connector
Headset	Tini-QG 4 pins (mini-XLR type)
Power consumption	Normal: 8W / Max 20W
Power supply	External AC/DC adapter. Input: 110-240V.
TP3016 user panel	44.4 mm(1RU) x 440mm (19" rack) x 77mm. 1.6 Kg
Dimensions	44.4 mm(1RU) x 440mm (19" rack) x 77mm. 1.6 Kg
TP3216 user panel	80 mm x 265 mm x 180 mm. 1.6 Kg
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

TP3016R01 (rack) 2 dig, 1 an. ports; 1 GPIO port; 16 keys.

EP4016R01 (rack) Additional 16 keys and 2 LCD displays

TP3216R01 (desktop) 1 dig, 1 an. ports; 1 GPIO port; 16 keys.

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)