

Matrix with IEB Pro (8x8 Dante Channels, optional activation) with 0 analog inputs and 0 analog outputs



### Description

Maximize versatility with the cutting-edge Matrix Processing Platform of the K-array Ecosystem: PRISMA-KPRO0+.

Prisma-KPRO0+ stands out as a powerful digital processing platform with matrix functionality, featuring the Integrated Electronic Brain-Pro (IEB-Pro) and supporting up to 16x Dante channels that can be activated on demand.

Extend the capabilities of Prisma-KPRO0+ with the KPRIN4 and KPROUT4 accessory boards, each offering an additional 4 channels. This expansion allows for a total of up to 8x analog inputs and outputs (GPI - input controls - multi-zones output configurations) providing flexibility for a diverse range of audio applications with nine distinct configuration setups.

Prisma-KPRO0+ is controllable via web thanks to the Web App - the built-in interface that can be accessed via any browser and gives full control over DSP parameters, network settings and system updates. The K-Connect for smartphone and tablet provide a user friendly interface for remote control of the DSP main parameters and easy configuration of the signal routing. It gives direct access to the Web App for a more advanced programming and it is ideal for a quick configuration.

The K-Control - is the ultimate solution for easy and accessible control of K-array devices. Using our advanced programming tool to customize the interface to any requirements. Ideal for all applications demanding smart and straightforward control of the K-array ecosystem.

- 1U rack-compatible
- Equipped with Dante-Ready™ for activation of Dante™ license and supporting up to 16 Dante channels (8x8).
- DSP onboard with:
  - Input EQ: 15 bands fully parametric equalizer;
  - Output EQ: 15 bands fully parametric selectable filters: Peaking, High-Shelf, Low-Shelf, High-Pass, Low-Pass,
  - HP-Butterworth, LP-Butterworth;
  - Noise Gate on Analog signals;
  - Audio Priority/fail over on router inputs 1 to 4
  - Signal routing: freely assignable input-to-output signal path with crosspoint level adjustment;
  - Output Channel delay up to 50 ms
- Integrated Electronic Brain PRO (IEB - Pro) with osKar custom operating system running on quad core 1.6 GHz internal processor.
- Digital channel count (IEB PRO 8x8), connection and signal redundancy
- Expandable with dedicated KPRIN4 and KPROUT4 accessory boards.
- REST API for easy integration with third-party remote control systems.
- K-Connect mobile for easy wireless access to the DSP features.
- K-Control customizable dashboard and app for smart control and integration with the K-array ecosystem.

All the Prisma-KPRO0+ components are designed by the K-array R&D department and are custom made under the K-array quality control system in Italy.

# PRISMA-KPROO+

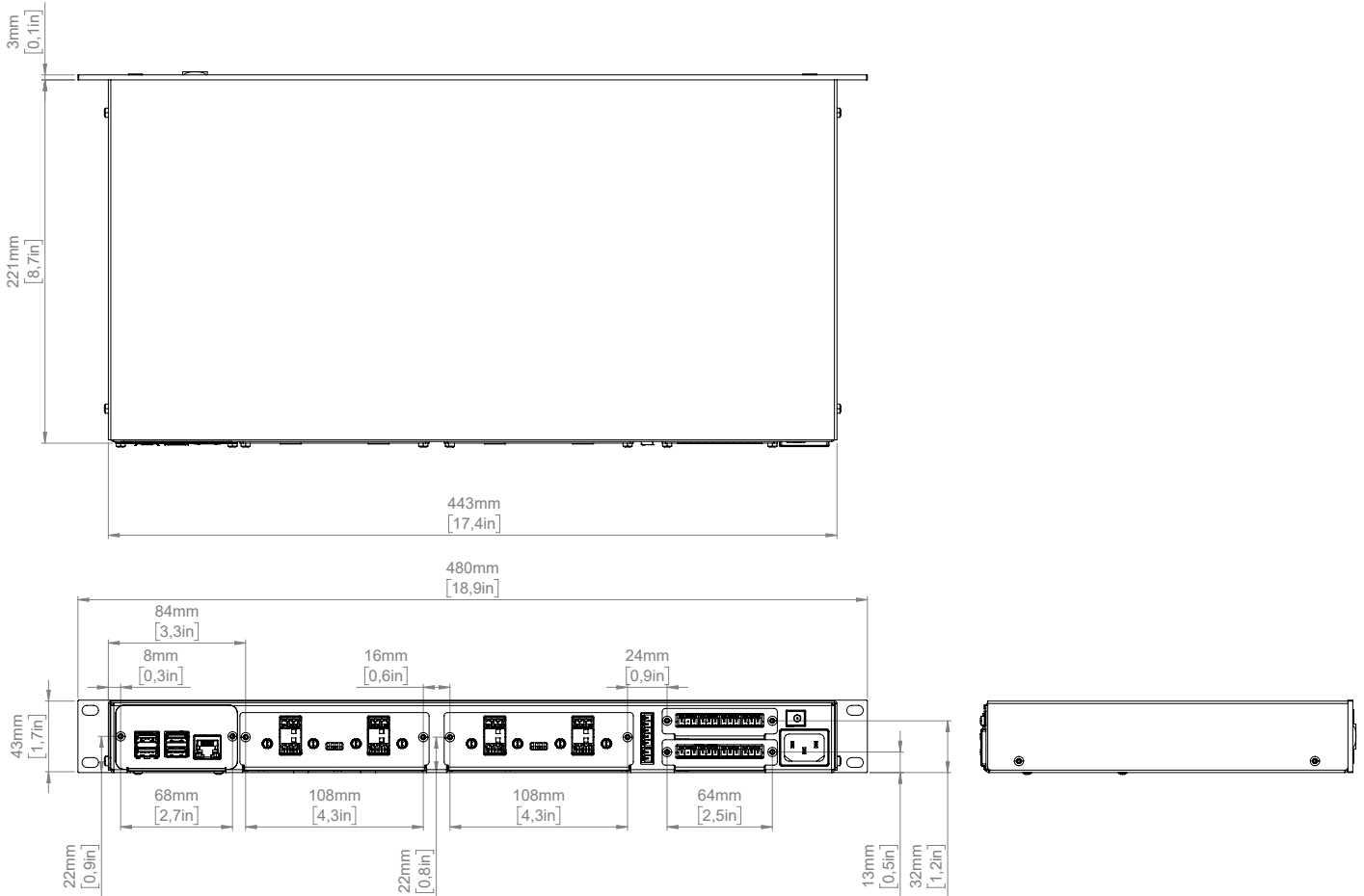
## Technical Specifications

General	
Type	Matrix Processing Platform
Input Frequency Response	20 Hz – 20 kHz (+0/-1dB)
Input Impedance	(balanced) 4 k $\Omega$
Input Sensitivity	0dBV @0dB gain
Gain Step	0dB / +16dB / +32dB / +48dB
Max Input Gain	+20dBV @0dB
Phantom power	Yes, +48V DC selectable on each individual channel via Dip Switch
ADC	Yes, Sampling Rate 48KHz
Output Frequency Response	20-20KHz +0/-1dB
Output THD	0,1 %
Output Impedance	(balanced) 4 k $\Omega$
Reference Output Level	Nominal + 4 dBu Max output +26 dBu
Connections	<p>Input: Up to 2x input slot with 8x BAL input: IC 2 5/ 3-ST-5 08 5.08mm - with KPRIN4</p> <p>TOSLINK optical input,</p> <p>Output: Up to output slot with 8x BAL input: IC 2 5/ 3-ST-5 08 5.08mm - with KPROUT4</p> <p>Digital: Up to 16x Dante channel 8 IN/8 OUT - (enabled with Dante eady), 2x RJ45 Ethernet 1.Gbit - primary, secondary Wi-Fi IEEE 802.11 b/g/n 1x USB-A 2.0</p>
Processor	iMX8 running on Quad. core 1.6 GHz with IEB-Pro osKar Operating System
Built-in DSP	<p>Input EQ: 15 bands fully parametric equalizer;</p> <p>Output EQ: 15 bands fully parametric selectable filters: Peaking, High-Shelf, Low-Shelf, High-Pass, Low-Pass, HP-Butterworth, LP-Butterworth;</p> <p>Noise Gate on Analog signals;</p> <p>Audio Priority/fail over on router inputs 1 to 4</p> <p>Signal routing: freely assignable input-to-output signal path with crosspoint level adjustment;</p> <p>Output Channel delay up to 50 ms.</p>
Controls	4x GPI - (24 Vdc - 0.5 A)
Remote control	Wi-Fi dedicated K-array Connect mobile app Web-App built-in interface Third party remote control system
MAINS Operating Range	100 – 240 Vac autorange / 24 Vdc

Handling & Finishes	
IP rating	IP20
Dimensions	1U Rack (44 x 230 x 48 mm)
Material	Stainless Steel
Color	Black

# PRISMA-KPROO+

## Mechanical Drawings



Notes:  
Passive loudspeakers require dedicated presets loaded onboard K-array amplifiers.  
New materials and designs are introduced into existing products without previous notice.  
Present systems may differ in some respects from those presented in this catalog.