

KP-4016 / KP-4016PB

OMNEO-Capable Color Display Keypanel



Pushbutton model not shown

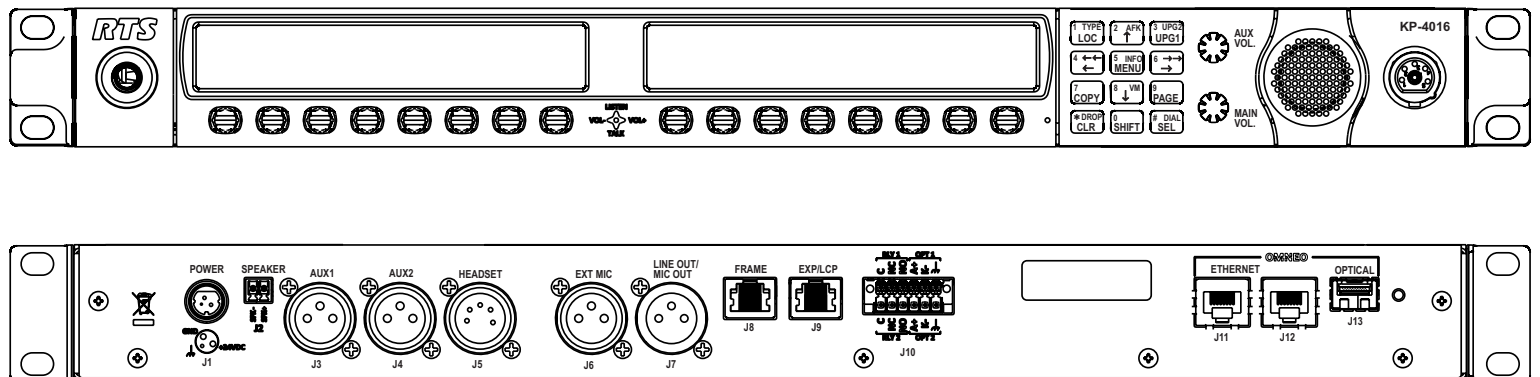
Both the KP-4016 and KP-4016PB keypanels deliver superior high-quality digital audio using the Bosch-branded OMNEO technology with Dante™ by Audinate audio over IP via either copper or fiber. The KP-4016 delivers top-notch audio, free of noise, delay, and other artifacts present in older technology. This family of keypanels includes a rich set of connectors as standard, including GPIO and RC. As with other RTS products, emphasis has been placed on backward compatibility with previous generations of matrices including analog technology.

The keypanel models utilize the latest generation of wide angle TFT displays providing superior clarity, resolution, and longer display life, delivering high-quality readability under a variety of lighting conditions.

Features

- Backward compatible with older technologies such as analog audio in USOC and 568-B connector formats
- All previous options hardware connectors (RC, GPI, and ancillary items) are now standard
- New wide-angle high-definition display
- Enhanced navigation menus optimized for ease of use
- Front panel headset connector is field-swappable, making it simple to change the default 5-pin XLR (6-pin compatible) headset connector with a 4-pin XLR headset connector, as needed

Line Drawing



Specifications

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LCD Display:

Active Area: 120.10mm (wide) x 18.77mm (high)
Dot Resolution: 576 x 90 pixels
Color Resolution 16-bit (64K)RGB color
View Angle: 80 degrees (typical; all directions)

Power Supply:

Type: External DC
AC Input: 100–240VAC 50/60Hz

General Purpose Inputs and Outputs:

Outputs

Type (relays) SPDT
Contact Rating 1AMP @ 30VDC

Inputs

Type Optically Coupled
Input Voltage 5-18 VDC on A+

♦A+ is internally pulled to 5VDC. Connect K- to  to activate. ♦

Inputs:

Matrix

Type Balanced
Typical Input Level +8dBu
Typical Input Impedance >10kΩ
Maximum Input Level +20dBu
Supported Bandwidth 100Hz to 20KHz

Aux 1 and Aux 2

Type Balanced
Typical Input Level +8dBu
Typical Input Impedance >10 k Ω

Front Panel Mic

Type Electret
Typical Input Level -42dBu
Typical Input Impedance 1kΩ
Maximum Input Level -25dBu

Rear Panel Mic

Type Electret
Typical Input Level -42dBu
Typical Input Impedance 1kΩ
Maximum Input Level -25dBu

Front and Rear Headset Mic - Electret

Typical Input Level -42dBu
Typical Input Impedance 1kΩ
Maximum Input Level -25dBu

Front and Rear Headset Mic - Dynamic

Typical Input Level -50dBu
Typical Input Impedance 600Ω
Maximum Input Level -25dBu

Outputs:

Matrix

Type Balanced
Typical Output Level +8dBu
THD+N% <0.20%
Typical Output Impedance 600Ω
Maximum Output Level +20dBu
Frequency Response 100Hz to 20KHz

MIC/LINE Out

Type Balanced
Typical Output Level +8dBu
THD+N% <0.20%
Typical Output Impedance 600Ω
Maximum Output Level +20dBu
Frequency Response 100Hz to 20KHz

Headset - Front, Rear, Left, Right

Maximum
Output Power 125mW for 32Ω load
Earphone Impedance 16Ω and above
THD+N% <0.20%
Frequency Response 100Hz to 20KHz

Speaker - Rear

Maximum Output Power 5W for 8Ω load
Speaker Impedance 4Ω and 8Ω
THD+N% <0.20%
Frequency Response 100Hz to 20KHz

Speaker - Front

Front 84dB SPL for 1kHz sine wave @ 1 meter

Digital:

OMNEO Channels

Typical OMNEO Latency 1ms
Frequency Response 20Hz - 20KHz

Environmental:

Dimensions

17.39" W(without rack ears) x 1.72" H x 3.88" D
(441.82mm x 43.8mm x 98.5mm
[111.11mm including volume knobs and lever keys])

Weight

KP-4016 3.5lb (1.58kg)
Power Supply 0.53lb (.24kg)
Power Supply
Mounting Bracket 0.30lbs (.14kg)

Temperature

Operating 0° C to 55° C (32° F to 131° F)
Storage -20° C to 70° C (-4° F to 158° F)

Power Consumption:

Nominal 12 Watts
Maximum 15 Watts
Maximum Volt Amp 48 VA

Certification:

CE Compliance

EMC
EN55022 Class A
VCCI Class A
ICES-003
FCC Part 15 Subpart B Class A
AS/NZS CISPR22 Class A
Korean KN 22
EN 55024
Korean KN 61000-4
BSMI Class B

Safety

UL 60950-4
EN60950-1
CB Report
PSE

Order Information

KP-4016 • KP4016 A5F

KP-4016 • KP4016 A4F

KP-4016PB • KP4016PB A5F

KP-4016PB • KP4016PB A4F

EKP-4016 • EKP 4016 EXPANSION PANEL

EKP-4016PB • EKP 4016 EXPANSION PUSHBUTTON PANEL

KP_OEI_PS_BRK • KP-OIE2 POWER SUPPLY BRACKET (USE WITH GlobTEK TR9CI2500MLDI3O-N(RVB)

KP PS BRK LEV VI • KP PWR SUPPLY MNT BRKT LVL 6 (USE WITH GlobTEK TR9CI2500ML3-CIM(R6B)

The specification information is subject to change without notification. Brand names mentioned are the property of their respective companies.

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