Technical Data Sheet

Innovating the Future of Global Communications

KP-4016PB

Push Button OMNEO-Capable Color Display Keypanel

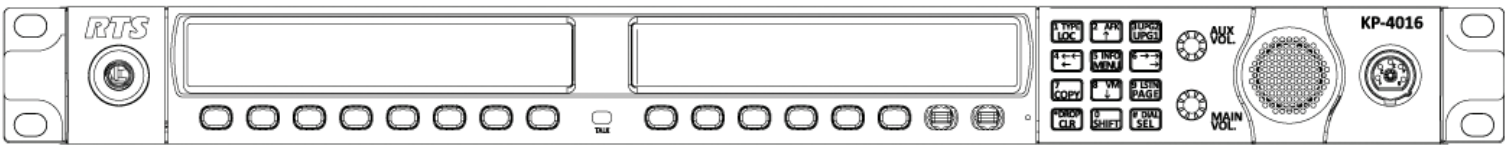
The KP-4016 push button keypanel delivers superior high-quality digital audio using the Bosch-branded OMNEO technology with Dante™ by Audinate audio over IP via either copper or fiber. The KP-4016 delivers top-notch audio, free of noise and other artifacts present in older technology. This family of keypanels includes a rich set of connectors as standard, including GPIO and RC.

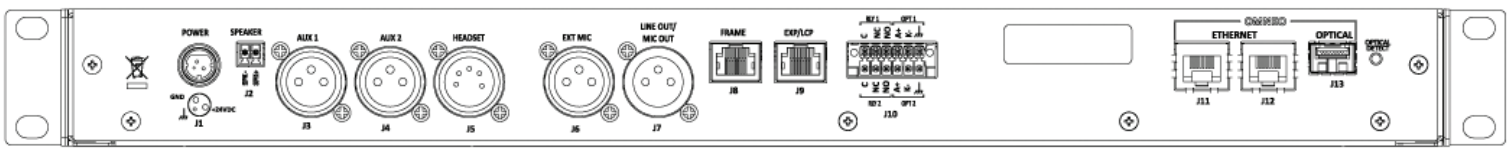
The KP-4016 push-button keypanel utilizes the latest generation of wide angle TFT displays providing superior clarity, resolution, and longer display life, delivering high-quality readability under a variety of lighting conditions.

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

Line Drawing





Specifications

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 ..... 84dBSPL 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-4016PB..... 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

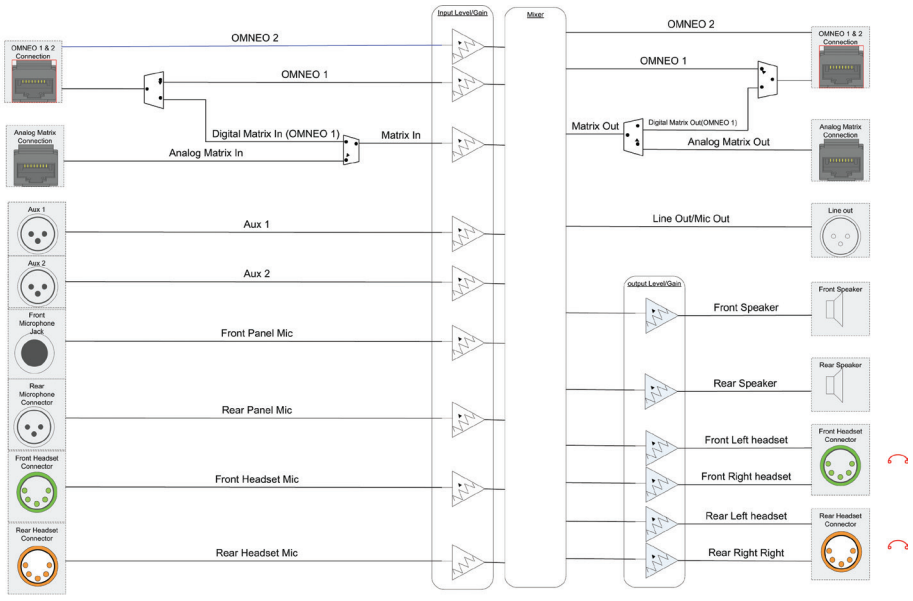
Certification:

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

Order No.	Description
KP4016PB4F	KP-4016PB A4F
KP4016PB4F AC	KP-4016PB A4F Option A+C
KP4016PB5F	KP-4016PB A5F
KP4016PB5F AC	KP-4016PB A5F Option A+C
EKP4016PB	EKP-4016PB

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