Mic/Line Inputs and Outputs

Inputs	Balanced Audio Inputs: 0.15" / 3.81 mm Orange Color Phoenix/Euroblock Male Header, Push-On Mini-Terminal Block
Outputs	Balanced Audio Outputs: 0.15" / 3.81 mm Black Color Phoenix/Euroblock Male Header, Push-On Mini-Terminal Block
Frequency Response	20 Hz to 22 kHz at +4 dBu, ±0.5 dBu
Equivalent Input Noise	20 kHz BW, Max Gain, Rs = 150 Ohms, -126 dBu
Total Harmonic Distortion (THD) + N	20 Hz to 22 kHz at +4 dBu, Line Level, 0.006% 20 Hz to 22 kHz at -56 dBu, Mic Level, < 0.04%
Dynamic Range	20 Hz to 20 kHz at 0 dB, > 105 dB
Crosstalk	Mic/Line: Channel to Channel, Stimulus at 20 dBu to Receptor at -56 dBu, 1 kHz, < -98 dB
Input Impedance	Balanced (Line to Ground), 2.2 Kilohms, 1%
Nominal Input Level	Adjustable -56 dB to 0 dB, 7 dB Step Coarse Gain
Maximum Input Level	-65 dBu to 20 dBu
Phantom Power	48 V, 6.81 Kilohms
Output Impedance	Balanced (Line to Ground), 95 Ohms, 1%
Output Level	Nominal: 0 dBu Maximum: 20 dBu Selectable: -40 dBu

USB Audio

Port Type	USB-B Connector
Audio	Digital Audio, 2 x 2 Bidirectional Channels
Sample Rate	48 kHz
Bit Depth	Sample: 24-Bit
Compatible	USB 2.0 USB 3.0

Telephone Specifications

Port Type	RJ11
Frequency Response	Mic/Line Input to Telephone Out: 250 Hz to 3.4 kHz, ±2 dB, 4 dBu Telephone In to Mic/Line Out: 250 Hz to 3.4 kHz, ±2 dB, -15 dBu
Total Harmonic Distortion (THD) + N	Mic/Line Input to Telephone Out: < 0.1% at 4 dBu Telephone In to Mic/Line Out: < 0.3% at -15 dBu
Dynamic Range	Mic/Line Input to Telephone Out: >67 dBu Telephone In to Mic/Line Out: >87 dBu
REN	Ringer Equivalent Number: 0.2
Transhybrid Balance	30 dB (1 kHz, All AC Terminations)

VoIP

Port Type	RJ45, 10/100 Mb/s Ethernet Network, Auto Negotiation
Audio	5 Lines
Codec	G.711 uLaw, G.711 ALaw, G.722
Skype	Skype for Business (S4B): Microsoft Skype for Business Support (1 Client) Choose Either Regular VoIP or S4B Through Configuration

Ethernet

Port Type	RJ45, 10/100 Mb/s Ethernet Network, Auto Negotiation
IP Address Assignment	IPv4 (IPv6 Upgradeable Through Future Software, Firmware Upgrade)

Dante Network

Port Type	RJ45 Gigabit Ethernet Connectors for Primary and Secondary Ports
Audio	Digital Audio, 16 x 16 Bidirectional Channels Sample Rate: 48/96 kHz Sample Bit Depth: 24-Bit AES67 Mode: Enabled through Dante Controller Software

C-Link Expansion Bus

Port Types	RJ45 (Cat 5e or Cat 6)

C-Link In & Out: Proprietary Expansion Bus
Audio: 64 Expansion Channels
Cable: Solid Core, Factory Terminated Cat 5e or 6 Cable
Distance: Up to 150' / 45 m

P-Link Peripheral Bus

Port Types	RJ45 (Cat 5e or 6)
P-Link Connector	In and Out: Proprietary Peripheral Bus
PoE	In: P-Link In Port PoE 802.3 af Mode B, Midspan Power On "Spare Pairs" 4, 5 and 7, 8 Input Voltage Range: 48 to 56 V
Audio	Up to 3 Beamforming Microphone Array 2 Units + Up to 3 DIALOG 20 Wireless Receiver Units + Up to 3 USB Expander Units + Up to 3 GPIO Expander Units
Cable	Solid Core, Factory Terminated Cat 5e or 6 Cable
Distance	Up to 200' / 60 m
Long Distance P-Link	Increases P-Link Distance from 200 x 650' / 61.0 x 198.1 m 650' / 200 m Maximum Cable Distance Between any Two Units Cat 6, 550 MHz, 23 AWG, Solid Conductor Cable Do Not Use Copper Clad Aluminum (CCA) Cable Available Only for BFM2 Peripheral Units 48 V PoE Midspan Mode B Power Injector for 1 BFM2 Unit 56 V PoE Midspan Mode B Power Injector for 3 BFM2 Units

RS232 Parameters

Port Type	DB9 Female
Settings	9600/19200/38400/57600/115200 Baud; Serial Echo; Flow Control
Support	Serial Commands

GPIO

Port Type	0.2" / 0.5 cm Green Color Phoenix/Euroblock Type Male Header
Support	Control, Status, Variable Voltage Control
Power Pin Assignment	5 VDC at 350 mA Power Source
Pin Assignments	Pin 1 to 4: Open Collector Outputs: 40 VDC at 250 mA Active Outputs (Source/Sink): 5 VDC at 25 mA Logic Inputs: 40.2 Kilohms Pull Up Variable Voltage Control Inputs: 5 VDC Max Ground Pin: GND

USB Control

Port Type	USB-B Connector
Location	Front Panel
Compatible	USB 2.0, USB 3.0

LEDs

Location	Front Panel
Status LEDs	Off: Unit Still Initializing Blue - Fast Blinking: Stack Syncing in Progress Blue - Slow Blinking: Unit Not Configured Blue - Solid: Configured Unit Red - Fast Blinking: Stack Sync Error
LED	Locate LED: Blue - Blinking: Unit "Locate" Command Received Power LED: Blue - Solid: Unit Is Powered On

Touch Sensor

Sensor Type	Capacitive Touch Button
Location	Front Panel

Power

Port Type	AC Inlet
Mains Voltage	100 to 240 VAC, 50/60 Hz
Power Consumption	50 W Typical
Thermal	170 BTU/Hr Typical
Operating Temperature	14 to 104°F / -10 to 40°C

Dimensions & Weight

Rack Units	1 RU
Dimensions (W x D x H)	Without Rack Ears: 17 x 10.7 x 1.7" / 43.2 x 27.3 x 4.4 cm With Rack Ears: 19 x 10.7 x 1.7" / 48.3 x 27.3 x 4.4 cm
Weight	9.3 lb / 4.2 kg