

SAFM SERIES · FLUSH-MOUNT CONFERENCE

Digital Flush-Mount Discussion, Voting & Interpretation Family

Five-product technical reference covering the BR-DCU-SAFM family — chairman, delegate, 64-channel interpreter selector, voting unit with IC card reader, voting unit, and flush speaker, all built on the BRONX-LINK digital ring network.

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01 · CHAIRMAN / DELEGATE

Digital Flush-Mounting Discussion Chairman / Delegate Unit

Stylish, low-profile flush-mount discussion units for permanent boardroom installations — pluggable gooseneck microphone with two-colour LED ring.

The BR-DCU-SAFM-C chairman unit and BR-DCU-SAFM-D delegate unit share a common touchable interface and an aluminium chassis sized for a 93 × 33 mm tabletop cut-out. Both units run on the BRONX-LINK digital ring network, carrying 64 channels of lossless 48 kHz audio over a single CAT5e cable in a hand-in-hand loop topology.



SAMPLING	CUT-OUT	BODY DEPTH	POWER DRAW
48 kHz	93 × 33 mm	65 mm	2.0 W

HEADLINE CAPABILITIES

- Stylish, low profile design with touchable interface
- Pluggable gooseneck microphone
- 3.5 mm earphone jack
- Anti-RF interference from cell phone or similar devices
- Standard CAT5e and RJ45 connectors used throughout SAFM series for convenient projects and maintenance
- Priority button and approval button on chairman unit BR-DCU-SAFM-C
- 48 kHz audio sampling rate
- Hot plug and play

01.1 Functions

NETWORK · AUDIO · CAMERA

- Compliance with IEC 60914, GBT 15381-94.
- The unique BRONX-LINK digital ring network technology achieves full-digital signal transmission and processing, completely avoiding RF interference from cell phones or similar devices.
- Single CAT5e cable transmits 64 channels of audio and various information.
- High fidelity sound by zero-loss audio transmit technology, 48 kHz audio sampling frequency, 20 Hz – 20 KHz response frequency.
- "Hand-in-Hand-Loop-Network" connection makes the system always working perfectly no matter changing discussion unit or having any malfunctioned units.
- This system is assigned to each unit independently ID to avoid duplicate ID conflict.
- AGC (Automatic Gain Control) / AFC (Adaptive Feedback Cancellation) / ANC (Active Noise Control) / Mix (Auto-Mix) technology.
- Hot-swap for any system unit, and the controller has auto-recovery function.
- Precise cardioid directional microphone capsule with anti-wind microphone foam, with two-color LED indicator.
- Button for MIC ON/OFF, Priority & Apply Answer button for chairman unit.
- Without using PC software, our conference controller still owns the following settings:
 - Limit on the number of speaking persons: by setting the number of active units at the same time (1 / 2 / 4 / 6 units).
 - Discussion modes: "OPEN" free for all, limited by active units setting; "OVERRIDE" first in first out; "VOICE" activates MIC by detecting sound without pressing a button; "APPLY" to apply then to speak.
 - Chairman unit has priority to close all other units or mute them temporarily.
 - Chairman unit can consent the request for speaking from delegate.
 - Support simultaneous language interpretation by connecting to the channel selector.
- Works with Bronx PTZ camera and auto-tracking camera switcher to realise camera auto-tracking function.

01.2 Control & Indicators

3 ELEMENTS

- Microphone with two-color LED ring — red indicates speaking status, green indicates request to speak.
- MIC ON / OFF buttons with indicating backlight.
- Chairman unit with priority button and consent button for the delegates.

01.3 Interfaces

CONNECTIVITY

- 1× pluggable gooseneck microphone base.
- 1× 3.5 mm stereo headphone jack on front.
- 2× RJ45 connectors for daisy chain.
- RJ11 socket for compatible voting units.
- 3.5 mm socket and RJ11 for compatible discussion units.
- 1× 3.5 mm speaker socket for BR-DCU-SAFM-SPK.

01.4 Technical Parameters

ACOUSTIC · ELECTRICAL · MECHANICAL

Button	Touchable interface
Sound Pickup	Heart-type capacitance
Sensitivity	-46 dBV / Pa
Maximum power consumption	2.0 W
Directivity	0° / 180° > 20 dB (1 kHz)
Headphone load	16 Ω
Headphone volume	10 mW
Headphone jack	3.5 mm stereo
Input impedance	2 kΩ

SNR	70 dB
Frequency response	20 ~ 20000 Hz
Equivalent noise	20 dBA (SPL)
Main material	Aluminium
Maximum sound pressure	125 dB (THD < 3%)
Weight	0.6 kg (with microphone)
Dimension	100 L × 40 W × 65 H mm (without microphone)
Operating temperature	0 °C to + 55 °C
Color	Black

REFERENCE · SYSTEM PAIRING

- BR-DCU-SAFM-INTSEL — pair for simultaneous interpretation, 64 language channels.
- BR-DCU-SAFM-SPK — flush-mount speaker for local audio playback.
- BR-DCU-SAFM-VIC / -VOT — voting modules with sign-in for parliamentary or audience response.
- Bronx PTZ camera + auto-tracking switcher — automatic speaker camera tracking.

02 · CHANNEL SELECTOR

Digital Flush-Mounting 64 Channel Selector

Touchable interpreter selector with OLED display, 64 language channels, automatic adaptation and built-in "Auto Silent" function.



HEADLINE CAPABILITIES

- Stylish, low profile design with touchable interface
- Standard CAT5e and RJ45 connectors used throughout SAFM series
- Built-in "Auto Silent" function
- Hot plug and play
- 64 language channels for simultaneous interpretations, all with 20 Hz to 20 kHz frequency response
- Automatically adapts to available channels
- Flush mountable in tabletops, on top, at the front, or in arm-rest of seats
- Can be used independently or connected to BR-DCU-SAFM-VIC or BR-DCU-SAFM-VOT

02.1 Functions

CHANNEL SELECTION · AUDIO

- 64 language channels for simultaneous interpretations, all channels with a 20 Hz to 20 kHz frequency response.
- Built-in channel selecting buttons, volume adjust buttons and OLED display.
- The channel selector activates only when the headphone is inserted.
- Upon insertion of a headphone, the default 'floor' channel (channel 0) is selected with a comfortable headphone volume and the dimmed backlight is activated.

02.2 Control & Indicators

3 ELEMENTS

- Two touch-buttons (up / down) for channel selection.
- Two touch-buttons (up / down) for headphone volume control.
- OLED display for channels and volume information.

02.3 Interfaces & Specifications

CONNECTIVITY · MECHANICAL

Headphone (front)	3.5 mm stereo audio jack
Daisy chain	2× RJ45 connectors
Voting module	RJ11 port for BR-DCU-SAFM-VIC / -VOT
Discussion unit	RJ11 + 3.5 mm port for compatible discussion units
Button	Touchable interface
Headphone load	16 Ω
Headphone volume	10 mW

Input impedance	2 kΩ
Maximum power consumption	1.8 W
SNR	70 dB
Frequency response	20 ~ 20000 Hz
Weight	0.2 kg
Dimension	100 L × 40 W × 65 H mm
Operating temperature	0 °C to + 55 °C
Color	Black

03 · VOTING UNIT

Digital Voting Unit with IC-Card Reader

Five-button parliamentary voting station with built-in contactless IC-card reader and key-press sign-in. Up to 3,000 units per system.



HEADLINE CAPABILITIES

- Flush-mounting, stylish, low profile design with touchable interface
- 5 voting keys
- Hot plug and play
- Max system capacity: 3000 voting units
- Built-in contactless IC-Card reader

03.1 Functions

VOTING MODES · SIGN-IN

- 5 voting buttons with red back-light confirmation indicators to prompt the users to indicate presence, to vote and to confirm registration of what is voted. The buttons and indicators work as follows:
 - Yes (+), no (-) and abstain (x) — for / against, parliamentary voting.
 - Numerals 1 to 5 — used for multiple choice, option polls and rating.
 - Rating scale: --, -, 0, +, ++ — used for audience response.
- Use the PC software to support more voting forms.
- Max. system capacity: 3000 voting units.
- Built-in contactless IC card reader.
- Key-press sign-in.
- Automatic detection.

03.2 Control & Indicators · Interfaces · Specs

REFERENCE

Touch-buttons (voting)	5
LED sign-in indicator	1
IC card reader slot	1
Port No. 1 (RJ11)	For BR-DCU-SAFM-INTSEL or BR-DCU-SAFM-C / -D
Port No. 2 (RJ11)	For compatible discussion units

Connection	CAT5 / 6e cable
Material	Aluminium alloy
Mounting	Flush-mounting
Weight	0.2 kg
Dimension	100 L × 40 W × 65 H mm
Operating temperature	0 °C to + 55 °C
Color	Black

04 · VOTING UNIT

Digital Voting Unit

Five-button voting station for parliamentary, multiple-choice and audience-response use. ESD-rated to 8 kV per IEC CISPR 24.



HEADLINE CAPABILITIES

- Flush-mounting, stylish, low profile design with touchable interface
- 5 voting keys
- Max system capacity: 3000 voting units
- Hot plug and play

04.1 Functions

VOTING MODES · ESD

- Anti 8 kV static, conforms to IEC CISPR 24.
- 5 voting buttons with red back-light confirmation indicators to prompt the users to indicate presence, to vote and to confirm registration of what is voted. The buttons and indicators work as follows:
 - Yes (+), no (-) and abstain (x) — for / against, parliamentary voting.
 - Numerals 1 to 5 — used for multiple choice, option polls and rating.
 - Rating scale: --, -, 0, +, ++ — used for audience response.
- Use the PC software to support more voting forms.
- Max. system capacity: 3000 voting units.
- Key-press sign-in.
- Automatic detection.

04.2 Control & Indicators · Interfaces · Specs

REFERENCE

Touch-buttons (voting)	5	Connection	CAT5 / 6e cable
LED sign-in indicator	1	Material	Aluminium alloy
Port No. 1 (RJ11)	For BR-DCU-SAFM-INTSEL or BR-DCU-SAFM-C / -D	Mounting	Flush-mounting
Port No. 2 (RJ11)	For compatible discussion units	Weight	0.2 kg
		Dimension	100 L × 40 W × 30 H mm
		Operating temperature	0 °C to + 55 °C
		Color	Black

05 · FLUSH SPEAKER

Flush-Mounting Speaker Unit

Compact 3 W aluminium-housed speaker for tabletop installation alongside the SAFM discussion family.

The BR-DCU-SAFM-SPK fits the same 93 × 33 mm tabletop cut-out as the rest of the SAFM family, with a 30 mm low-profile body. It connects to a discussion unit via a 1 m captive cable terminated in a 3.5 mm stereo jack — no separate amplifier required.



SPEAKER	LOAD	CUT-OUT	BODY DEPTH
3 W	16 Ω	93 × 33 mm	30 mm

05.1 Features

FORM & ACOUSTICS

- Unique compact design with aluminium enclosure.
- High-fidelity internal speaker.

05.2 Interfaces

CAPTIVE CABLE

- 1 m cable terminated with a 3.5 mm stereo jack.

05.3 Technical Parameters

ELECTRICAL · MECHANICAL

Interface load	16 Ω	Mounting	Flush-mounting
Speaker	3 W	Weight	0.2 kg
Connection	CAT5 / 6e cable	Dimension	100 L × 40 W × 30 H mm
Material	Aluminium alloy	Operating temperature	0 °C to + 55 °C
		Color	Black

06 · COMMON REFERENCE

Tabletop Cut-out Sizes & Ordering Codes

All five SAFM products share the same 93 × 33 mm single-unit aperture and a common modular layout for two-, three- and four-unit groups.

06.1 Opening Hole Sizes

CUT-OUT PER GROUP · 33 MM DEPTH

One Unit		93 × 33 mm
Two Combined		193 × 33 mm
Three Combined		293 × 33 mm
Four Combined		393 × 33 mm

Two-combined uses 193 × 33 mm or two 93 × 33 mm cut-outs with 41 mm middle distance. Front panel exterior is 100 × 41 mm per unit (101 mm centre-to-centre on multi-unit panels).

06.2 Ordering Matrix

5 PRODUCT SKUS · 4 MICROPHONE LENGTHS

SKU	DESCRIPTION
BR-DCU-SAFM-C	Digital Flush-mounting Discussion Chairman Unit (microphone and cable not included)
BR-DCU-SAFM-D	Digital Flush-mounting Discussion Delegate Unit (microphone and cable not included)
BR-DCU-SAFM-INTSEL	Digital Flush-mounting 64 Channel Selector
BR-DCU-SAFM-VIC	Digital Voting Unit with IC Card Reader
BR-DCU-SAFM-VOT	Digital Voting Unit
BR-DCU-SAFM-SPK	Flush-mounting Speaker Unit
—	330 mm gooseneck microphone, with anti-wind foam cover
—	410 mm gooseneck microphone, with anti-wind foam cover
—	485 mm gooseneck microphone, with anti-wind foam cover
—	600 mm gooseneck microphone, with anti-wind foam cover

Microphone SKU codes pending. All specifications subject to revision without notice. Custom finish and bespoke cut-outs available on request through your authorised Bronx Systems distributor.

BRONX

Engineered for Indian boardrooms, ministries, courtrooms and broadcast halls — flush-mount conference systems built around the BR-DCU-SAFM family.

ABOUT BRONX SYSTEMS

An Indian Original Equipment Manufacturer. ISO certified · MSME · Make in India · NSIC. Bronx Systems supplies professional audio-visual, conference, control-room and signage solutions to government, defence, broadcast and enterprise customers across India.

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DOCUMENT

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REVISION

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