

FAL-BS27T-TZ



This active 6.5-inch coaxial ceiling speaker integrates PoE power and Dante audio networking into a streamlined, space-saving design. Featuring an onboard DSP engine, front-accessible RJ-45 connection, and a magnetic etched grille, it offers high SPL output and precise digital control for narrow ceiling environments without compromising sound quality or installation convenience.

Key Features

- Integrated Dante & PoE Architecture: Built-in Dante module (RJ-45) and PoE power module compatible with IEEE 802.3af/at/bt for clean, single-cable audio signal transmission and powering.
- Onboard DSP Processing: Full digital signal control via Dante Controller, including volume adjustment, mute, limiter, EQ equalization, and channel routing selection.
- Coaxial High-SPL Output: Combines a 6.5" woofer and a 1" dome tweeter to deliver 89 dB sensitivity, 109 dB SPL, and a wide 120° conical coverage angle.
- Advanced Power Conversion: Powered by single-stage DC-AC power conversion, soft-switching technology, bidirectional energy recovery, and precise PSM (Phase Modulation).
- Magnetic Etched Grille: Secured by 8 × N42 high-strength magnets for quick, tool-less attachment and a flush, rimless appearance.
- Shallow Plenum Optimization: Designed for narrow ceiling spaces with a 176 mm embedding depth and front-facing RJ-45 wiring terminals for simplified maintenance.
- Triple Safety System: Horn-reinforced fixation, rear barrel safety wire, and dedicated iron mesh safety rope for max structural reliability.

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Specifications

Audio & Performance

Parameter	Specification
Driver Configuration	1 × 6.5" Woofer + 1 × 1" Dome Tweeter (Coaxial)
Rated Impedance	8 Ω
Rated Power	50 W (Continuous) / 200 W (PEAK)
Effective Frequency Range	85 Hz – 20 kHz
Characteristic Sensitivity (1m/1W)	89 dB
Specified Frequency Band Max SPL	109 dB
Coverage Angle	Conical 120°

Physical, Mechanical & Installation

Parameter	Specification
Panel Material	ABS
Back Shell Material	Iron
Grille Material & Process	Etched metal mesh
Grille Attachment	Magnetic adsorption
Mounting Buckles	Zinc alloy buckles
Wiring Connection	Front-accessible RJ-45 terminal
Safety Devices	Horn-reinforced fixation, rear barrel wire safety rope, iron mesh safety rope
Outer Diameter	316 mm
Cutout Diameter	270 mm
Embedding Depth	176 mm
Total Height	197 mm
Ceiling Thickness Range	10 – 50 mm
Net Weight	3.75 kg