



प्रसार भारती / PRASAR BHARATI
भारत का लोक सेवा प्रसारक / India's Public Service Broadcaster
आकाशवाणी, दिल्ली/ Akashvani, Delhi

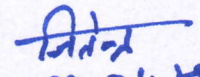


S.O./No.J/198/2025-ENGG - AIR DELHI

Date:02.01.2026

Subject: Publication of Draft Technical Specification for Digital Audio Console at Akashvani, Delhi for seeking Vendors/OEMs feedback and budgetary quote.

1. Draft Technical Specification for SITC of Digital Audio Console at Akashvani, Delhi is being uploaded to invite feedback from the Vendors/OEMs dealing with supply of such equipments. The interested parties are requested to provide comments/feedback on this technical specification.
2. The budgetary price offered for SITC of Digital Audio Console with associated equipment may also be submitted.
3. All these information may be provided by E-mail to ddgenbh@prasarbharati.gov.in and enggstorenbh@gmail.com on or before 12.01.2026.


02.01.2026

(JITENDER PRUTHI)
(Dy. Director General (Engg.))

Technical Specifications of Compact Digital Mixer/Console with Dante Support

PART-A : Technical Specifications

1. GENERAL SPECIFICATIONS

- a. The equipment shall be compact Digital Audio Mixer suitable for carrying to OB spot.
- b. The equipment shall operate as a standalone Mixer with integrated mixing, routing & monitoring functionality.
- c. The system must support IP-based audio transport using Dante for interoperability with modern broadcast audio networks. Dante connectivity should be available in dual redundant network architecture to ensure seamless and uninterrupted operation.
- d. The device shall include local analogue audio I/O to maintain functionality even without network connectivity.
- e. The housing shall be rugged, metal-built, suitable for continuous professional use in field and studio environments.
- f. A Windows-compatible remote-control application must be provided for full configuration, routing, gain adjustment, monitoring, and preset management.
- g. All front-panel controls must be intuitive for ease of operation by operating staff.

2. TECHNICAL SPECIFICATIONS

2.1 Audio Inputs

- a. The unit shall support at least 12 Mic/Line inputs on XLR connectors.
- b. Mic Input Gain Range: -50 dB to +20 dB.
- c. Frequency Response : +0.5, -1.0 dB 20 Hz-20 kHz, reference to the nominal output level@1 kHz,.
- d. Total harmonic Distortion: Less than 0.01 % 20 Hz - 20 kHz@+4 dBu into 10 k Ω
- e. Equivalent Input Noise: 125 dBu (22-22 kHz RMS, 300 Ω terminated)
- f. Each input must support Mic / Line operating modes and 48V Phantom Power.
- g. Microphone inputs must offer front-panel gain controls.
- h. Supported Sampling rate : 48 Khz/96 KHz
- i. The unit shall support one Stereo Input.

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2.2 Audio Outputs

- a. Console should have at least 8 Audio Output on XLR connector.
- b. Console should have at least 6 Mix Buses and should also at least two Matrix .
- c. Console should have at least one TRS Phone output for Headphone Monitoring purpose.

2.3 Faders

- a. Console should have at least eight faders.:

2.4 Internal Processing & Routing

- a. The console shall include a DSP-based routing and mixing engine.
- b. Internal mixing, routing etc must be configurable via either via software or via front panel control.
- c. The console must support preset storage and recall. The console should have some programmable Buttons.

2.5 Network Audio

- a. The console must support Dante audio networking.
- b. Minimum 32 network audio channels (combined inputs and outputs) shall be supported on Dante Audio networking.
- c. The console must feature Primary and Secondary network ports for full Dante redundancy.
- d. Redundant switching must occur without audible interruption.
- e. The console must also support USB ports for interconnection with Computer workstation for recording purpose. USB port should support multi-track Audio Recording. One USB device also must support connection of USB storage device for recording Stereo Audio.

2.7 Software

- a. A remote control/Configuration software for console compatible with Windows OS should be provided with software.
- b. A multi-track Audio Recording and Editing software compatible with Windows OS for recording/Editing on workstation using USB Port should be included with Console.

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29/12/2025

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2.8 Power Requirements

- 1. The unit must support multiple power options, including:
 - o AC mains (100–240V, 50/60 Hz)
 - o External DC input (15-24V)
2. The device shall remain operational using any single power source.
3. Power consumption shall not exceed 50W.

3. ACCESSORIES

The following accessories shall be provided with the commentator console:

- Power cable
- User manual / Quick start guide
- Downloadable software

4. Carrying case

Each console shall be supplied with a carrying case suitable for transporting the equipment safely to OB spot.

5. WARRANTY:

The commentator Box & POE+ switch shall be warranted for three years.

6. TRAINING :

Two day training shall be provided to Akashvani Delhi staff on use of equipment.

R. Sharma
29/12/2025

S. Sharma
29/12/25

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29/12/25

PART-B : Bill of Material

| Sno | Item | Quantity | Reference |
|-----|--|----------|-------------|
| 1. | Compact Digital Mixer with dante Support | 4 Nos. | Para-1 to 2 |
| 2. | Carrying Case | 4 Nos. | Para 4 |
| 3. | Accessories | 4 Set | Para 3 |
| 4. | Warranty | 3 Years | Para 5 |
| 5. | Training | 2 days | Para 6 |

Ravindra Nath
29/12/2025
V Ravindra Nath
A.E

Shaktidhar dhyani
29/12/2025
Shaktidhar dhyani
A.E

Prakash Chandra
29/12/25
Prakash Chandra
A.E