



प्रसार भारती/PRASAR BHARATI
भारत का लोक सेवा प्रसारक /India's Public Service Broadcaster
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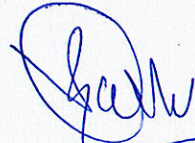
No. J-11018/4/2022-Studio Design-P&D Unit

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Subject: Publication of Draft Technical Specification of Professional Single Channel Digital Audio Card for Audio Workstation for seeking Vendors/OEMs feedback

1. Technical Specification of Professional Single Channel Digital Audio Card is uploaded to invite feedback from the Vendors/OEMs dealing with supply of such equipments. The interested parties are requested to provide comments/feedback on the technical specification.
2. Firms/OEMs are also requested to provide availability of local content and percentage of local content.
3. Comments/Feedback may be provided by E-mail to "airstudiodesign331@gmail.com on or before 03.10.2022.


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PRASAR BHARATI / प्रसार भारती

DIRECTORATE GENERAL: ALL INDIA RADIO / आकाशवाणी महानिदेशालय

PLANNING AND DEVELOPMENT UNIT / योजना एवं विकास एकक

Technical Specification for Professional Single Channel Stereo Digital Audio Card

1. General

- 1.1 This specification is for Supply of Professional Single Channel Stereo Digital Audio Card for Workstation at different All India Radio Stations as per Annexure-I.
- 1.2 The offered equipment should be from a reputed manufacturer and the quoted model of Professional Single Channel Stereo Digital Audio Cards should be field proven.

2. Scope of the Tender

- 2.1 The Scope of this tender is for supply of Professional Single Channel Stereo Digital Audio Card at Zonal Offices of All India Radio as per Annexure-I for installation in Workstation that have to interface with Digital Audio Recording/ Transmission Consoles.
- 2.2 Common Features & Audio Specifications of Audio Card are given in para 3 & 4.

3. Common Features Of Professional Single Channel Stereo Digital Audio Cards

- 3.1 The Professional Audio Cards shall have state-of-the-art digital circuitry.
- 3.2 The professional Audio Cards should be suitable for reliable operation on 24x7x365 basis working.
- 3.3 Audio Card should be compatible with PCI Express x1(x2, x4,x8, x16,x32) Bus/Format.
- 3.4 Audio Card should have OS compatibility with Windows 7, 8, 10, 11.
- 3.5 Audio Card should have on-board processing.
- 3.6 Professional Audio Cards should accept the Digital Audio Inputs.
- 3.7 Digital Input and Output should be through 3-Pin XLR Connector. If necessary, interface cable with connectors should be included with the audio card.
- 3.8 All Digital Inputs and Outputs shall have AES-3 format.
- 3.9 Audio Card shall have built-in Sampling Rate Converter on each Digital Input so as to convert Digital Audio Signals of different sampling rate to desired sampling rate.
- 3.10 The Audio Card should accept digital audio input signal with sampling rate 32 kHz, 44.1 kHz and 48 kHz and Bit Rate of 16/24.

4. Audio Specification of Professional Single Channel Stereo Digital Audio Cards for use in Recording/Editing/Transmission Studio.

4.1 Digital Input Channel	: 1 AES/EBU(Stereo) Professional Input
4.2 Digital Output Channels	: 1 AES/EBU(Stereo) Professional Output
4.3 Supported Digital Audio Formats	: Linear PCM Play & Record
4.4 Supported Sampling Rate	: up to 48 kHz
4.5 Supported Sample Length	: up to 24 bits
4.6 Frequency Response(at 48 kHz S/R)	: ± 0.5 dB(20Hz to 20 kHz)
4.7 Distortion +Noise at 1 kHz(20 Hz to 20 kHz)	: <0.01% at Maximum output with 80 kHz LPF
4.8 SRC on Digital Inputs	: Should be available
4.9 Workstation Bus Support	: PCI-Express
4.10 OS Compatibility	: Windows 7,8,10 & 11

5. Pre-Dispatch Documentation

5.1 Audio Cards shall be accepted on the basis of OEM Certification confirming compliances to sections. OEM Test reports shall be enclosed with Audio Cards.

6. Instruction Manual

A softcopy of Manual on CD/DVD ROM Media shall also be provided to Each Zonal Offices.

7. After Sales Support and Warranty

The Audio Cards shall be warranted for Trouble free operation for a minimum period of three years from the date of supply.

Annexure- I

Details of Consignee of Professional Single Channel Audio Cards(Digital) to be supplied at Zonal Offices of AIR under Under BIND Scheme

S.No.	Consignee	Quantity
1.	O/o ADG-E(BO) (NZ), All India Radio & Doordarshan, Shahjahan Road, New Delhi-110011	211
2.	O/o ADG-E(BO) (NEZ), All India Radio & Doordarshan, Doordarshan Complex, R.G. Baruah Road ,Guwahati-781024	83
3.	O/o ADG-E(BO) (EZ), All India Radio & Doordarshan, 4 th Floor, Akashvani Bhawan , Eden Garden, Kolkata-700001	30
4.	O/o ADG-E(BO) (WZ), All India Radio & Doordarshan, Pratishtha Bhawan , 3 rd Floor, 101 M.K. Road Mumbai-400020	33
5.	O/o ADG-E(BO) (SZ), All India Radio & Doordarshan, Swamy Sivananda Salal, Chennai-600005	108
6.	Total	465
