

# ProDAB-1 Plus

Reference DAB/DAB+/FM receiver  
With MP3 & Web Radio player

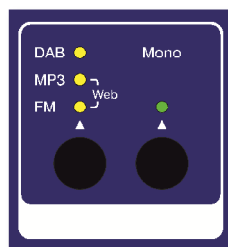
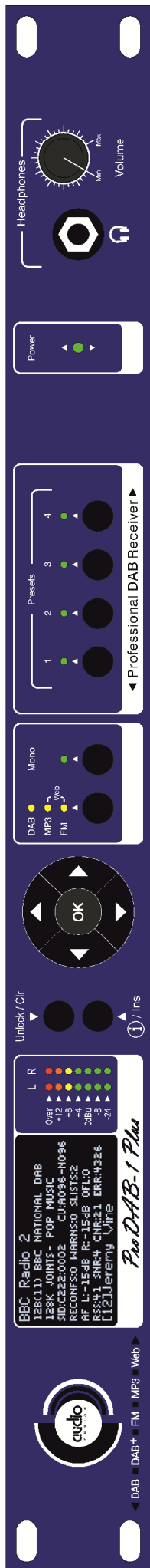


## Monitor and Control with Confidence from Anywhere!

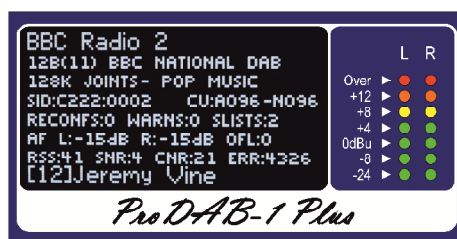
Specifically designed for professional applications where reliability is the key factor. The ProDAB-1 Plus will not only transparently survive dynamic MUX reconfigurations, but also supports a full raft of functions that make this unit an ideal choice for mission critical applications. ProDAB-1 Plus supports DAB/DAB+, FM & Internet Web Radio as well as MP3 Payout. Automatic "lockout" on front panel controls to prevent accidental changing of configuration. Built-in web server for control and status monitoring as well as \*\*live streaming of audio content.

### Features:

- Balanced audio outputs on XLR with multi-turn preset adjustable level controls
- AES3 digital output with adjustable sampling rates
- Support for DAB/DAB+
- Stereo FM Receiver
- MP3 stand-by play out with adjustable silence detect threshold
- Mono/Stereo configurable
- Full range of GPIO including selection of Presets/Profiles, Traffic Flag (FM) & Mono/Stereo
- 4 Front Panel Preset/Profiles – allows station or complete configuration selection
- RS232 output of RDS data and Service information (DAB/DAB+)
- LAN control and monitoring of status and audio via Internet
- Built-in web server
- FTP server for uploading MP3 files
- USB connection for USB flash drive (MP3 play out)
- Internet Web Radio Player
- Internet Icecast encoder (TBA)
- High resolution white OLED display
- Head phone output with volume control
- Off-air confidence receiver
- SNMP, SNMP traps & RSSI/SNR monitoring
- Fail Over – DAB ◀ ▶ Web ◀ ▶ MP3
- Internal Digital Reference Tone Generator for accurate output alignment



Select Mode



Confidence Metering & Display



Edit/Display

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# SPECIFICATION

## Audio Outputs:

Analogue audio: 3pin XLR – Balanced output level adjustable +18dBu to -2dBu ref fsd

Digital audio: AES3 3pin XLR menu adjustable sampling rates from 32kHz to 96kHz

Headphone: ¼ inch Stereo jack, output suitable of headphone of greater than 30Ω

**GPIO:** 25way D female, outputs open collector, inputs 5v 10kΩ

Inputs: Preset/Profile selection, Mono/Stereo

Outputs: RDS Traffic flag, Mono/Stereo

**RS232:** Output of RDS data and DAB service information.

**LAN:** Ethernet 10/100, supports static IP or DHCP.

**Antenna:** F-Type socket for Band-3/FM.

DAB/DAB+: ETSI EN 300 401 compliant receiver. All Modes (I, II, III, and IV) support.

FM: BS5942-2 / BS 60315-4

## RF Input frequency range:

FM: 87.5~108MHz

Band-3: 174~240MHz

## RF Sensitivity:

DAB/DAB+: 2.0μV BER = 10-4 typical

FM: 0.7μV SINAD = 26dB typical

## Audio output DAB Band 3 (Transmitted algorithm dependant):

THD: 0.026 % typ.

SNR: 81dB typ.

Stereo separation: 53dB typ.

Frequency response: 20Hz-20kHz ±3dB typ.

## Audio output FM:

THD: 0.1% Mono typical

SNR: 60dB Stereo typical

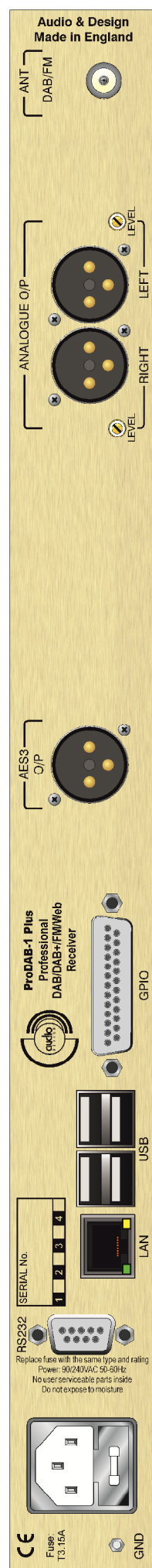
Stereo separation: 45dB typ.

Frequency response: 20Hz-15kHz ±3dB typ.

**Power:** 90v – 240vac 50/60Hz

**Size:** 19 inch rack mounting 1RU x 212mm (8.35") deep.

**Weight:** 1.65Kg (net)



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