BROADCAST TOOL

Model DB7008

Advanced FM and DAB/DAB+ Re-Broadcast Receiver with IP Audio & MP3 Backup Players

The DB7008 Rebroadcast Receiver is a next-generation solution engineered to deliver high-precision FM and DAB/DAB+ signal reception, monitoring and continuous rebroadcasting within a single professional platform. Built on a powerful DSP architecture and advanced RF front end, it ensures reliable operation even under demanding broadcast conditions.

A notable feature of the DB7008 is its ability to use DAB/DAB+ as the primary program source while preserving full FM metadata. When operating in this mode, the receiver can extract PAD (Program Associated Data) from the selected DAB service and automatically populate RDS dynamic fields, such as Radiotext. This provides seamless metadata continuity across broadcast technologies, allowing FM listeners to receive the same dynamic information carried by the DAB service.

With two independent tuners, one dedicated to FM and one to DAB/DAB+, the DB7008 enables simultaneous monitoring, redundancy and automatic switching to backup sources. Its measurement capabilities include loudness monitoring compliant with ITU BS.1770-4 and EBU R128, detailed RDS/RBDS and BER analysis, PAD metadata decoding and extensive logging for both FM and DAB/DAB+. Each tuner includes a 24-channel logger, with all historical data accessible via FTP.

Operation is straightforward thanks to the intuitive front-panel interface, sharp OLED display and bright LED level meters. Remote management is fully supported through a responsive web interface compatible with desktop and mobile devices. Integrated SNMP, e-mail and GPO alarms ensure immediate notification of signal issues, making the DB7008 a dependable component in any professional broadcast infrastructure.

Reliable, versatile and engineered for precision, the DB7008 is well suited for broadcasters requiring uninterrupted service, accurate monitoring and metadata consistency across FM and DAB/DAB+ platforms.

FEATURES

- **FM Band 87.1 - 108 MHz with Basic Spectrum Analyzer**
- **Up to 100 dBµV Direct RF Antenna Input**
- **Selectable Wide-Range IF Filter Bandwidth**
- **Fully DSP-Based Signal Processing**
- **Built-in Loudness Analyzer (ITU BS.1770-4 and EBU R128)**
- **Bright LED Bar Graph for RF, MPX & Audio Levels**
- **Selectable De-emphasis**
- **Built-in Stereo Decoder**
- **RDS/RBDS Decoder with BER Meter**
- **24-Channel FM Data Logger with Historical Data**
- **Real-Time Audio Streaming for Remote Listening**
- **High-End Digital DAB/DAB+ Tuner**
- **ETSI EN 300 401 Compliant**
- **Program Associated Data (PAD) Support**
- **Full Information - Ensemble, Service, Subchannel, Metadata**
- **Automatic Display of Live PAD Information**
- **24-Channel DAB/DAB+ Data Logger**
- **High-Stability RF Front End for Reliable Rebroadcasting**
- **Low-Noise, High-Quality Audio Output Paths for Re-Emission**
- **Configurable Backup Sources (FM ↔ DAB/DAB+)**
- **Automatic Source Switching with Adjustable Thresholds**
- **Protected Access to Device Settings**
- **Balanced Analog Audio Outputs (XLR) with Adjustable Level**
- **Professional AES/EBU Digital Output**
- **Headphone Output with Front-Panel Level Control**
- **SNTP for Automatic Clock Synchronization**
- **LAN Port for Full TCP/IP Remote Control and Monitoring**
- **Built-in Web & FTP Servers - no additional software required**
- **Easy-to-Use Web Interface with Apple & Android Support**
- **Adjustable Alarms for RF, MPX, L/R Levels, RDS, BER, PAD**
- **Alarm Dispatch via E-mail, SNMP v2C and GPO Outputs**
- **Detailed Error and Status Logging**
- **Wide-Angle OLED Display for Instant Local Readout**
- **Intuitive Front-Panel Navigation with Soft Keys**
- **Accurate Front-Panel RF and Audio Metering**
- **Firmware Updates for Continuous Feature Improvements**
- **Restore Factory Parameters Option**
- **Easy Installation and Setup**

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SPECIFICATIONS

DAB/DAB+ Radio Input	
RF frequency range	168 - 240 MHz
DAB/DAB+	Band III Channels 5A - 13F
Sensitivity	18 dBµV
Input connector	BNC 50Ω
In compliance with	ETSI EN 300 401
Ensemble acquisition Time	940 ms
L&R Audio	1%, +5.0 to -50.0 dB, 0.1 dB resolution
DAB/DAB+ Radio Metering	
Quality indicators	RSSI, SNR, CNR, FIC Quality, FIB Errors, FFT Offset
PAD	DLS, MOT
Metadata Displayed	Ensemble Label, Component List & ID, Service List & ID, Dynamic Label, PTY, Sample Rate, Bit Rate, Gain, Mode, Service Mode, Protection Info, Current CU & Address, Country, Language, Time & Date
FM Radio Input	
Tuning Range	87.1-108 MHz (CCIR)
Tuning Step	10, 20, 50, 100 kHz
Tuner Sensitivity	30 dBµV
Antenna Ports	BNC Connector, 50Ω
Antenna Ports Isolation	> 40 dB
Dynamic range	100 dB
FM Demod	
IF Filter Bandwindth	15 Increments (27kHz - 157kHz, Auto)
Dynamic range	90 dB
Stereo Decoder	
Frequency Response (L&R)	±0.1 dB, 10 Hz to 15 kHz
SNR (Stereo)	60 dB, 50 µs de-emphasis
THD	0.15% @ 1kHz, 0.4% from 10 Hz to 15 kHz, 50 µs de-emphasis
Separation	50 dB, 50 Hz to 10 kHz, 50 µs de-emphasis
Crosstalk	52 dB
Size and Weight	
Dimensions (W;H;D)	485 x 44 x 180 mm
Shipping Weight	540 x 115 x 300 mm / 2.700 kg
HS Code	8527212000

RDS Decoder	
Standards	European RDS CENELEC; United States RBDS NRSC
Error Correction & Counting	Yes
AF Decoding	Yes
CT (Time/Date)	Yes
PI, PTY, DI, MS	Yes
TA/TP	Yes
PS (Program Service name)	Yes
Group Analyzer	Yes
BER Analyzer	Yes
Group Sequence Display	Yes
FM Radio Metering	
RF Level	±1 dB, 0 to 100 dBµV
Audio	±1 dB, +10.0 to -55.0 dB, 0.1 dB resolution
Outputs	
Composite	+12 dBu @ 75kHz, 75Ω, unbalanced BNC Connector
Audio (L, R)	+6 dBu, 600Ω, balanced XLR Connector
AES3 (L, R)	5.0 Vp-p, 110Ω, balanced XLR Connector
SPDIF (L, R)	3.0 Vp-p, 110Ω, unbalanced BNC Connector
Optical (L, R)	Transmitter, TOSLINK
Alarms	Programmable terminals on rear panel, optoisolated
Headphone	6,3mm (1/4") Phone Jack
Communication Interfaces	
Ethernet 10/100 Base-T	RJ45 Connector
Measurement Storage	
Storage	16GB Build-in Memory Card
Data format	Text, CSV
Operating conditions	
Temperature	-15°C to 55°C
Humidity	< 95%, non-condensing
Altitude	0 to 5000m above sea level
Power	
Voltage	100-240V / 50-60 Hz
Power Consumption	20VA
Connector	IEC320, Fused and EMI-suppressed

WE NEVER SPARE EFFORTS AND RESOURCES TO TURN OUR IDEAS INTO SUCCESSFUL PRODUCTS

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