

COMPACT & RELIABLE FM RADIO STREAMER

Fully in keeping with the high standards of the DEVA product range, the DB35 model is the very definition of reliable, high-quality streaming of the FM signal. With a compact and practical, but quite elegant design, this product has been developed with the express purpose of allowing users to listen to and record the audio from any station. It also incorporates a variety of features providing accurate and dependable monitoring and measuring of many signal parameters, including the RF level, MPX deviation, MPX power, Left & Right audio levels, RDS, and Pilot injection levels.

The DB35 boasts a fully DSP-based core and guarantees round-the-clock operation. Crucially, this product provides an analog input, which allows you to perform not only remote, but also local audio monitoring. Upon demodulation of the FM signal, the RF signal is digitalized by the SDR FM tuner and all signal processing is achieved through calculations. The precision of this tool's digital filters means that the FM Multiplex signal's components can be accurately and repeatedly reproduced from one device to another, i.e. the same signal applied to two devices would give the same result. All measurement can be refreshed simultaneously and synchronously so that detailed readings of the Multiplex FM signal components can be obtained.

The DB35 supports TCP/IP connectivity for easy control and setup, also allowing you to monitor the channel status.

The DB35 model provides an RDS/RBDS decoder with BER meter, as well as adjustable alarms for RF, deviation, Pilot and RDS signal via email, SMS and SNMP, while the WEB interface makes for easy management of your unit.

The DB35 brings you the customary DEVA dependability and quality. Coupled with an affordable price, all its features contrive to produce an impeccable streaming performance.

**FEATURES**

- FM Band 65 ÷ 108 MHz Basic Spectrum Analyzer
- Real Time Audio Program Streaming
- Fully DSP based core
- Selectable De-emphasis – 50µs and 75µs
- Built-in Stereo Decoder; Stereo Presence Detection
- Date & Time Settings with various formats
- LAN port for TCP/IP remote control & monitoring
- Up to 90dBµV direct RF Antenna Input
- Adjustable alarms for RF, Pilot and RDS signal
- Firmware update for future-proof operation
- Parameters Factory Restore Option
- MPX, PILOT & RDS deviation meters
- LEFT and RIGHT demodulated audio level meters
- Headphones audio output
- RDS and RBDS decoder with BER meter
- Loudness meter
- Alarm dispatch via E-mail, SMS, SNMP
- Channel status reporting via SMS
- RF and RDS Measurements
- Real Time Audio Program Streaming
- Attractive price and very good price-performance ratio
- Intuitive Embedded WEB server for supervision
- Proved and reliable hardware for 24/7/365 operating
- Easy Installation and Setup
- SNTP for automatic synchronization of the built-in clock
- Compact & Robust Aluminum Case for high RF immunity

SPECIFICATIONS

RF Input	
Tuning Range	User selectable, 87.1-107.9 MHz (CCIR), 65-74 MHz (OIRT), 76-95 MHz (Japan)
Tuning Step	10, 20, 50, 100 kHz
Tuner Sensitivity	30 dB μ V
Antenna Port	BNC Connector, 50 Ω
Internal Attenuator	0, 10, 20 and 30 dB
Dynamic range	100 dB

FM Demod	
IF Filter Bandwidth	15 Increments (25kHz - 157kHz, Auto)
Frequency Response	\pm 0.1 dB, 10 Hz to 86 kHz
Dynamic range	90 dB

Stereo Decoder	
Frequency Response (L&R)	\pm 0.1 dB, 10 Hz to 15 kHz
SNR (Stereo)	60 dB, 50 μ s de-emphasis
THD	0.1%, 10 Hz to 15 kHz, 50 μ s de-emphasis
Separation	50 dB, 50 Hz to 10 kHz, 50 μ s de-emphasis
Crosstalk	52 dB

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
RT (Radio Text), RT+	Yes
PS (Program Service name)	Yes
ODA	Yes
Group Analyzer	Yes
BER Analyzer	Yes
Group Sequence Display	Yes
RDS RAW Data Display	Yes

Communication Interfaces	
Ethernet 10/100 Base-T	RJ45 Connector
GSM Modem	15 pin Male D-Sub Connector

Analog Audio input	
Connector	2 x RCA, stereo
Type	Unbalanced
Level	+6 dBu (max. +8dBu)
Sample rate	96 kHz; Build-in sample rate converter used to produce lower sample rates
Dynamic range	102 dB

Metering Accuracy	
RF Level	\pm 1 dB, 0 to 100 dB μ V
Multipath	0 to 100%; accuracy - \pm 1%
Pilot Level	\pm 0.5 kHz, 1 to 12 kHz, 0.2 kHz resolution
RDS Level	\pm 0.5 kHz, 1 to 12 kHz, 0.2 kHz resolution
Audio Level	\pm 1 dB, +10.0 to -55.0 dB, 0.1 dB resolution

User Interface	
Web interface	Full monitoring and control; Interactive and easy to use
Indicators	3 LEDs (on front panel)

Operating Conditions	
Temperature	10° to 60°C
EMC Immunity	6V/m

Outputs	
Audio stream	Icecast/Shoutcast compatible audio stream
Alarms	E-mail, SMS, SNMP
Headphone	1/8" (3.5mm) Phone Jack

Measurement Storage	
Storage	2GB Build-in Memory Card
Data format	Text, CSV

Power	
Voltage	External, 12V/1A
Power Consumption	12VA
Connector	Power Jack 5.5mm

Size and Weight	
Dimensions (W;H;D)	125 x 31 x 160 mm
Shipping Weight	270 x 54 x 230 mm / 1.1kg
HS Code	8527212000

