

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. Additionally there is an Analog AUX Input suitable for local audio monitoring. 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 signal parameters, including the RF level, Left & Right audio 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 signal's Audio 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 FM Audio 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 Level, Left & Right Audio, Pilot Presence, RDS PI and RDS Groups via email 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

- Real Time Audio Program Streaming
- FM Band 65 ÷ 108 MHz support
- Analog AUX In for local monitoring
- Up to 32 channels Round-Robin monitoring
- Fully DSP based core
- Selectable De-emphasis – 50µs and 75µs
- Built-in Stereo Decoder
- Stereo Presence Detection
- Date & Time Settings with various formats
- Up to 90dBµV direct RF Antenna Input
- Firmware update for future-proof operation
- Parameters Factory Restore Option
- Headphones audio output
- Adjustable alarms for RF Level, Pilot Presence and RDS PI
- LAN port for full TCP/IP remote control and monitoring
- LEFT and RIGHT demodulated audio level meters and Alarms
- RDS and RBDS decoder with BER meter
- Alarm dispatch via E-mail and SNMP
- Attractive price and very good price-performance ratio
- Very Intuitive Embedded WEB server for interactive supervision
- Proved and reliable hardware for 24/7/365 operating
- Easy Installation and Setup
- SNTP for automatic synchronization of the built-in clock
- Compact and 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)
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

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%
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	-15 $^{\circ}$ C to 55 $^{\circ}$ C
Humidity	< 95%, non-condensing
Altitude	0 to 5000m above sea level
EMC Immunity	6V/m

Outputs	
Audio stream	Icecast/Shoutcast compatible audio stream
Alarms	E-mail, 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

