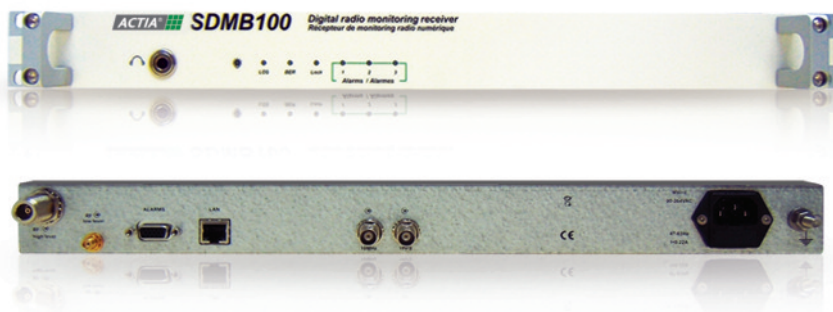# DIGITAL RADIO RF MONITORING DAB, DAB+, DMB

SDMB 100

Field aplications
- Terrestrial radio
- Transmission site
- SFN network
- Reception areas
- Multi-channel monitoring

Benefits and key features
- DAB, DAB+, DMB
- Band III and L-Band
- Mode I, II, III and IV
- High level input
- SFN drift monitoring at transmitter site
- MER measurement
- TII extraction
- Keys RF monitoring
- FIC analysis
- Sub channel analysis
- DAB+ Decoder
- Embedded GPS receiver

ENSURE QUALITY OF SERVICE 24/7

The SDMB 100 is an affordable solution for the RF DAB, DAB+ and DMB monitoring.
Compact in 1U rack, the unit ensures the quality and service availability. Including a Web based remote control and a SNMP server, the SDMB 100 returns and logs real-time RF measures and frame parameters.

The SDMB 100 monitoring equipment is well adapted for the transmitting sites, thanks to unique key features concerning its SFN drift measurements, its keys RF analysis (MER, SNR, BER, useful power level) or its high level input, for instance. In the case of critical areas, its audi o decoding with an audio silence detection, its high streaming capabilities and its complete analysis of frames enable in-depth controls.

Internal redundant power supply (hardware option) achieves very high availability of the measurements.

ACTIA®

DIGITAL RADIO RF MONITORING DAB, DAB+, DMB

SDMB 100

TECHNICAL CHARACTERISTICS

Mechanical Features		
Dimensions		19 ", rack 1U, 340mm
Weight		< 5 Kg
Electrical features		
Power Supply		90 à 264VAC / 47 to 63Hz
Power		< 50W
RF features		
Frequency Bands		Band III (174MHz to 240MHz) and L-Bands (1452 to 1492 MHz)
Bandwidth		1536 KHz
Input features		
High level RF input		
	Level	0dBm to +20dBm
	Connector	N female 50Ω
	Adjacent rejection	≥ 35dB
Low level RF input		
	Level	≤ -20dBm
	Connector	SMA female 50Ω
	Sensitivity	For BER 10-4 (DAB) : ≤ -95dBm
	Adjacent rejection	≥ 35dB
10 MHz input		
	Connector	BNC female 50Ω
	Signal	Sinus 0dBm to +15dBm
1PPS input		
	Connector	BNC female 50Ω
	Signal	TTL
Management input		
	Type	Ethernet for supervision and streaming
	Connector	RJ45
Alarms and remote control access		
	Content	3 alarms and 1 Reset
	Connector	SUBD 15pts HD
Compatibilities		
Standards		DAB, DAB+ and DMB
Modes		I, II, III and IV
Environment features		
Guaranteed performance temperature range		+5°C to +45°C
Operating temperature		0°C to +50°C
Storage temperature		-20°C to +55°C
Directives & Norms		
CEM		EN 301 489-1
Standards		ETS 300 401

QUALITY STANDARDS

afaq ISO 9001 Qualité AFNOR CERTIFICATION

afaq ISO 14001 Environnement AFNOR CERTIFICATION

CE

BLOCK DIAGRAM

Transmission site monitoring example

ACTIA®