

PROFLINE

BROADCAST MONITOR

PLUS1

DUAL TUNER SIMULCAST DAB & FM
HIGH POWER LOW NOISE FRONTEND
HIGHRES DISPLAY + MONITOR SPEAKERS



Features:

- Simulcast operation
- DAB / DAB+ and FM
- 2 antenna inputs with matrix switch
- Monitor speakers (stereo)
- XLR audio (balanced) digital and analog
- Highres display
- MPX output for rebroadcast
- RDS data decoding
- IP ports for HTTP based GUI and SNMP
- Supervising and logging facilities for RF, Audio, BER, FIC

The successor of the world famous SFD is PLUS1. It brings the unique RF frontend design for both FM and DAB+ together. Measure and supervise all your audio broadcasts.

A highres display with intuitive front panel makes the unit easy to operate. It has a local/remote switch to indicate any change of settings in a managed network. All functions are fully remotely operated by web browser and SNMP.

The PLUS1 broadcast receiver responds to the demands from the professional market and fills the gap between a low-cost consumer and a high-end measurement unit.

TECHNICAL SPECIFICATIONS

RF INPUT A&B

RF frequency range FM	87 – 108 MHz (other on req.)
RF frequency range DAB	168 - 240 MHz
Optional 168-270 MHz(cable)	
Sensitivity	- 92 dBm (15 dBuV)
Max. input level	13 dBm (120 dBuV)
VSWR	> 10 dB
Input connector	BNC 75 Ω

DAB SPECIFICATIONS

In compliance with	ETSI EN300401
Supported DAB modes	DAB (LII) and DAB+ (AACv2)
Ensemble acquisition time	940 ms
Adjacent channel rejection	50 dB
Frequency range <0.5 dB	20 – 22 KHz
Signal/Noise (S+N)/N	-80 dB
THD (IEC)	-73 dB

MEASUREMENTS

RF	Field strengths
DAB BER (FIC)	Yes
RDS BLER	Yes
Audio Silence Detector	Yes

MANAGEMENT

WEB user interface	Yes
Remote control	SNMP
MP3 remote streamer	Option

IP PORTS

Protocol	TCP and UDP
Port Type Ethernet	RJ45, 10/100/1000 Mbps

FM SPECIFICATIONS

Adjacent channel rejection $\Delta F=300\text{KHz}$	> 70dB
Frequency range <0.3 dB	30 Hz to 15 KHz
Stereo separation 40 Hz	>34 dB
500 Hz	>46 dB typ.50 dB
5 kHz	>40 dB typ.45 dB
15 kHz	>40 dB typ.44 dB
Signal/Noise (S+N)/N 40kHz deviation	-66 dB Stereo internal output L/R
S/N Weighted mpX out 40kHz deviation	> -57 dB
THD (IEC)	> -62 dB

MPX OUTPUT

Bandwidth	30 Hz - 70 KHz +/- 0.3 dB
Level adjustable digital	+/- 3dB step 0.1 dB
Connector	BNC 75Ω
MPX over IP	Option

AUDIO OUTPUT

DAB / FM Simulcast	Auto or Manual select
Digital level reference	-9 dBFS (100%)
Analogue audio out	XLR 30 Ω (Balanced)
Digital AES3 out	XLR 110 Ω

ALARM CONTACTS

Number of relays (status/alarm)	4 status / 1 alarm
Contacts	Potential free

GENERAL

Main power	100-240 VAC, 50/60 Hz
Power connection	IEC panel-mount/fuse 2.5 AT
Safety and EMC	According to CE regulations
Housing	Standard PROFLINE housing
Housing dimensions	19 inch x 1u x 330 mm (depth)
Weight	4,5 kg