

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
- Separate IP ports for DATA and Control
- 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
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

FM SPECIFICATIONS

Image rejection	70 dB
Adjacent channel rejection	65 dB
Frequency range <0.5 dB	30 Hz to 15 KHz
Stereo separation 1 KHz	43 dB
Signal/Noise (S+N)/N	-70 dB Stereo mode
THD (IEC)	-63 dB

MEASUREMENTS

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

MPX OUTPUT

Bandwidth	100 KHz
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

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

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 PROFl ine housing
Housing dimensions	19 inch x 1u x 330 mm (depth)
Weight	4,5 kg