

# 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 port 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	87.5 – 108 MHz (other on req.)
RF frequency range DAB	174.928 – 239.200 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

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 340 mm (depth)
Weight	4 KG