

ModMon encore | FM & MPX MODULATION MONITOR



Reference grade RF (FM) and baseband (MPX) analysis taken to a new level.

There are Modulation monitors, there are MPX decoders, there are metering devices, there are test sets - but never all in one package - before now. The ultimate modulation monitor.

The ModMon encore combines the technology from our award winning receivers and combines it with our lab reference grade audio processing technology to bring you a single box capable of analysing both FM and baseband signals. If you are doing anything with an FM or MPX signal - this box is what you need.

Why you'll never regret choosing the ModMon encore.

- **FM, MPX & RDS Decoding, metering & analysis** make this product the swiss army knife of RF and audio modulation monitoring.
- **Monitor two FM frequencies and / or two MPX inputs simultaneously** - with one button analysis comparison of you and your competition, or two audio processors.
- **Always on' front panel high resolution LED meters** offer full confidence metering of the FM and composite signals, easily switchable between dual tuners and dual MPX inputs.
- **Stereo (MPX) generation & peak limiting** with advanced anti-aliased protection distortion control or peaks and bandwidth.
- **RDS encoder (UECP compliant)** broadcasts your station ID, song and title and much more. Built in as standard!
- **Plan B Silence Detection and Source Switching** automatically reverts to auxiliary audio sources or on-board flash memory, keeping your broadcast on air.
- **HTML5, FTP, Telnet, SNMP & RS232 Remote Control with IP streaming** allows you to monitor and control your processor from anywhere in the world. Even listen in over an IP connection.
- **A flexible and versatile action and alerts system** brings together back panel GPIO at digital and analogue levels of your choosing, integrating it with an easy to set up 'do this when' and 'do this now' set of actions.

SPECIFICATION

FM TUNER (Dual)	
Inputs	2 x 50 Ohm, BNC Female
Tuning range	65-108MHz in 50kHz or 100kHz steps
IF bandwidth	56kHz - 311kHz dynamic or fixed
De-emphasis	75us, 50us or Off
SNR (Mono/Stereo)	-79dB / -60dB
THD (Mono/ Stereo)	0.011% / 0.16%
Stereo Separation	>50dB
Adjacent / alternate channel rejection	70dB / 74dB
RF input level	RF 0.5V to 2V
Audio monitoring output on jack	+12dB maximum

ANALOG INPUT	
Nom. input level	+4 dBu
Max input level	+24 dBu
Connectors	XLR balanced EMI suppressed
A/D conversion	24 bit
Distortion	<0.01%

ANALOG OUTPUT	
Analog output	0-24 dBu adjustable
Connectors	XLR balanced EMI suppressed
D/A conversion	24 bit

DIGITAL INPUT (AES/EBU)	
Sampling rate	32-192 kHz (MPX over AES ready)
Connector	XLR balanced EMI suppressed
Nominal input level	-20 dBfs

DIGITAL OUTPUT (AES/EBU)	
Sampling rate	32-192 kHz (MPX over AES ready)
Connector	XLR balanced EMI suppressed
Level	-32 - 0 dBfs adjustable

MPX / RDS	
Output level	0 - 12 dBu adjustable
MPX outputs	2 x BNC EMI suppressed
D/A conversion	192KHz, internally oversampled
Stereo separation	>60 dB 20Hz - 15 kHz
MPX inputs	2 x BNC EMI suppressed
A/D conversion	192KHz, internally oversampled
Pilot output	BNC software switched with MPX2 output

Remote Control	
Connectors	Serial, USB A, USB B, RJ45
Protocols	HTTP (browse, mobile, API), SNMP, TELNET, FTP, SMTP, RS232

OTHER	
Power	90 - 260 VAC, 50/60Hz, 25W IEC connector
Environmental	-20°C - 50°C / 0-90% RH, non-condensing
Size (inch)	19" W x 1.73" H x 9.84" D
Size (mm)	44mm x 482mm x 200mm
Weight	1.6 Kg
Warranty	10 year limited warranty

