DaySequerra

MAM2

AM-FM Market Area Monitor

2015 BEST of SHOW RADIO WORLD

MAM2
Available for Custom Order

DaySequerra's second-generation Market Area Monitor or MAM2 was especially designed to capture, log and report the entire HD Radio™ data payload for the main and all multicast programs including all PAD, SIS, RBDS and any weather and traffic data as well as accurate measurements of various HD Radio parameters such as time/level alignment, power levels and signal quality.

The MAM2 at its core is a very sophisticated software defined HD Radio receiver built on a customized Linux kernel. It is powered by a dual ARM Cortex CPU while data is processed by two separate floating point DSPs each running at 300MHz.

This MAM2 data collection system offers HD Radio broadcasters a set of resources for local, regional and national quality assurance and confidence monitoring as well as market competitive analysis. The MAM2 system provides complete diagnostic measurements for any HD Radio™ AM/FM station, whether an independent operation or part of a national multi-station group.

MAM2 Features

- Compact 1/2RU EMI-hardened Galvanneal Enclosure
- Balanced analog audio outputs
- Separate AM / FM antenna inputs
- iBiquity token controls access to Group-specific proprietary broadcast data
- Ethernet port for network access to all functions
- Complete with Remote Webserver; compatible with popular browsers
- SNMP interface for remote monitoring
- 12 VDC, 60W Max input power perfect for mobile applications
- Ships with UL/CE approved external +12VDC power supply with auto-sensing 85-264 VAC, 47-63 Hz input
- Can be easily customized for other monitoring applications

TECHNICAL SPECIFICATIONS

RF TUNING RANGE
AM: 520 kHz to 1720 kHz (User-selected 9 kHz or 10 kHz increments)
FM: 87.9 MHz to 108.1 MHz (User-selected 100 kHz or 200 kHz increments)

RF USABLE SENSITIVITY
AM: < 20 dBf (-100 dBm) for SNR -20 dB referenced to 30% modulation
FM: < 15 dBf (-100 dBm) for SNR -30 dB referenced to 100% modulation

RF INPUT
BNC-Type 50-ohm connectors
AM-FM: -55 dBm Nominal; -20 dBm Maximum

IF REJECTION
AM: > 100 dB for SNR -20 dB
FM: > 100 dB for SNR -30 dB

IMAGE REJECTION
> 65 dB

FM ALTERNATE CHANNEL SELECTIVITY
> 70 dB

AM ADJACENT CHANNEL SELECTIVITY
> 35 dB

AF BANDWIDTH
AM: ±1 dB, 40 Hz to 15 kHz
FM: ±1 dB, 20 Hz to 20 kHz

FM DE-EMPHASIS
50 μSEC or 75 μSEC (User-selected)

ANALOG AUDIO OUTPUTS
Left/Right Balanced XLR connectors
+4 dBm into 600 ohm for 100% modulation

HD RADIO™ HYBRID ACQUISITION
<4.5 seconds

RBDS DATA
Di, Ms, PI, PS, PTY, RT, Ta and TP data fields

*Email Server not compatible with SSL encryption
Features and specifications are subject to change without notice.

HD RADIO™ PAD AND SIS DATA
SIG, SIS, Extended SIS, AAAS, and LOT; PAD including station long and short name, program type, song file, artist, album, genre and comment fields; Artist Experience - album art, station logo and advertiser branding; iBiquity broadcast token access protects proprietary HD Radio data

+12 VDC INPUT POWER
60W Max; External UL/CE approved SMPS with auto-sensing 85-264 VAC, 47-63 Hz input

ENVIRONMENTAL
Operating Temperature: +41 to +105° F (+5 to +40° C)
Storage Temperature: -13 to +140° F (-25 to +60° C)
Relative Humidity: Maximum 85%, non-condensing

DIMENSIONS
1/2RU EMI-hardened; 9.5" (241.3 mm) W x 10" (254 mm) D x 1.75" (44.5 mm) H
Rack tray 19" (482.6 mm) W x 18" (457.2 mm) D x 1.75" (44.5 mm) H

SHIPPING WEIGHT
9.5 lbs. (4.3 kg) not including rack tray

WARRANTY
Three years, limited parts and labor

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