

INOmini 679

FM/HD Radio® Monitor Receiver



The INOmini 679 is Inovonics' third-generation, small form-factor FM and FM-band HD Radio broadcast monitor receiver, demodulating both analog FM and digital HD1-HD8 radio channels for confidence monitoring. You get a high-quality audio feed for rebroadcast or program distribution throughout the broadcast facility with adjustable analog and AES digital audio outputs. FM RBDS and HD Radio PAD data may be called-up for display on the front-panel LCD screen.

Strictly for professional applications, the INOmini 679 purposely does not blend between the analog FM and HD1 simulcast like a consumer radio. Tuning and mode preferences are held in nonvolatile memory and all settings are restored following a power cycle.

(optional rack adapter)



HD Radio

INOVONICS
BROADCAST

5805 Hwy 9, Felton CA 95018
www.inovonicsbroadcast.com

679 FM/HD RADIO MONITOR RECEIVER



FEATURE HIGHLIGHTS

- The INOmini 679 is a sensitive, DSP-based (SDR) radio that receives standard FM analog and FM/HD Radio broadcasts.
- Stays on-mode and on-channel through signal and power loss; does not blend between FM and HD.
- Easy front-panel setup uses jog-wheel menu navigation with a large LCD display. Accurate, hi-res metering shows RF signal and audio levels, RBDS/PAD data and reception metrics. Critical system menus are hidden.
- Balanced analog and AES-digital program line outputs are available simultaneously; levels are independently adjustable.
- Front-panel red-flashing alarms and rear-panel 'tallies' indicate HD Reception Loss, Low Signal and Audio Loss.
- 'Split Mode' audio monitoring aids transmission diversity delay setup.
- The LCD displays RSSI, SNR, Cd/No, Multipath and HD Level metrics to help with receiver antenna alignment.
- When issued, free firmware updates are easily installed in the field.

SPECIFICATIONS

Tuning Range: 87.5MHz – 107.9MHz in 100kHz steps

Antenna Input: 75Ω (F)

Sensitivity/SNR: 10dBμV for 50dB monaural-FM S/N

Audio Response:

FM: ±1dB, 30Hz – 15kHz; de-emphasis is menu-selectable for 75μs or 50μs

HD Radio: ±0.25dB, 20Hz – 20kHz

FM Stereo Modes:

Stereo / Stereo Auto-Blend / Forced-Mono

RDS Fields Displayed:

PI (and call), C/T, PTY, PTYN, PS, RT, RT+1, RT+2

HD Radio Channels: Selectable HD1 through HD8

HD Pad Fields Displayed:

HD Name/Slogan, HD PTY, FCC ID, HD Artist, HD Title, HD Album, HD Genre, Primary Service Mode, Coded Mode, Transmit Gain, Transmit Blend Control

Program Audio Outputs:

Balanced Analog: (XLR) Left and Right outputs are adjustable from –15dBu to +15dBu in 0.2dB steps.

AES Digital: (XLR) output at 44.1kHz is adjustable from –30dBFS to 0dBFS in 0.2dB steps.

Headphone Jack: (3.5mm TRS) has adjustable listening level.

Front-Panel Red-Flashing Alarms:

HD Loss: Fixed metrics determine loss of HD Radio reception.

Low Signal: Alarm and reset trigger levels are independently adjustable relative to the FM carrier level display.

Audio Loss: Alarm responds to monitored service (FM or HD Radio). Alarm threshold is adjustable between 0dB and –40dB, and the alarm delay interval is adjustable between OFF and 120 seconds.

Alarm "Tallies":

Individual open-collector NPN transistor outputs to ground are programmable for logic polarity.

USB Port:

The front-panel mini-USB port allows the quick uploading of firmware updates when issued.

Power Requirement:

12VDC at 335mA; a universal 90 – 240 VAC inline switching power supply is included with the INOmini 679 receiver.

Mounting Options:

An optional rack adapter accepts up to three INOmini modules in a 1U, 19-inch rack space. The 679 also may easily be fastened to any convenient surface with two small screws.

Size and Weight:

1.6"H x 5.5"W x 5.5"D;
4 lbs. shipping weight



MADE IN USA

5805 Hwy 9, Felton CA 95018
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