

INO *mini* 704

RDS/RBDS Dynamic Encoder

Data Sheet



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February, 2024 – Initial Release

Section I

INTRODUCTION

Product Description

The INOmini 704 is Inovonics' fourth-generation standalone RDS RadioData encoder in a small-format package, yet incorporating the dynamic messaging features of the company's flagship Model 732 encoder.

The 704 accepts 'now-playing' metadata from any of the popular station playout systems to scroll song title and artist information on listeners' radio faceplates. Additional housekeeping functions help listeners find favorite programming options and enable networking and timekeeping features.

Product Features

Features of the INOmini 704 include:

- x Works with virtually any automation (playout) system and all common FM audio processors, exciters and transmitters.
- x Easy LAN/Internet setup using the built-in Web-server interface and any computer or mobile device with an Internet connection. The 704 includes one TCP port and one UDP port for IP network communications.
- x The front-panel LCD screen and jog-knob permit review of settings and enable on-site setup of networking parameters and the RDS injection level.
- x Full SNMP compliance permits interface with other transmitter-plant equipment.
- x The 704 pilot-locks to a stereo-generator SYNC output, to the 19kHz component in the composite/MPX program signal, or defaults to an internal time base for monaural operation.
- x When issued, free firmware updates are easily installed in the field.

Product Specifications

RDS Applications Supported: **PS** (Program Service Name: your station's 'street name' and/or scrolling song info); **PI** (Program Identification: station ID calculated from call letters in US & Canada, assigned by broadcast authorities elsewhere); **PTY** (Program Type: your station's format or theme); **PTYN** (Program Type Name: a further refinement of your PTY); **AF** (Alternative Frequencies: yours and your rebroadcast 'translator' frequencies); **RT** (RadioText: additional scrolling messaging); **CT** (Clock/Time: sets the listener's car clock); **DI** (Decoder Information: mono-stereo data flag); **M/S** (Music/Speech data flag).

Flashing Panel Alarms: A PI code is essential to RDS operation. NO PI CODE RDS MUTED will flash and the 704 will not function until a PI code is entered. When the pilot alarm is enabled, PILOT LOSS flashes if lock with the stereo pilot is lost.

MPX/Pilot Input: An unbalanced/bridging input (BNC) accepts either the complete composite-multiplex stereo baseband signal or 19kHz TTL-level stereo pilot sync from the stereo generator. Maximum amplitude: 5Vpp. The 704 reverts to an internal time base for monaural transmissions.

RDS Output: Unbalanced, 753 (BNC); delivers the RDS sub-carrier (only) to feed the RDS/SCA input of an FM exciter. Output level adjustable from zero to 4Vpp.

Network Port: Network connector (RJ45) accepts multiple IP networking connections; one TCP port and one UDP port.

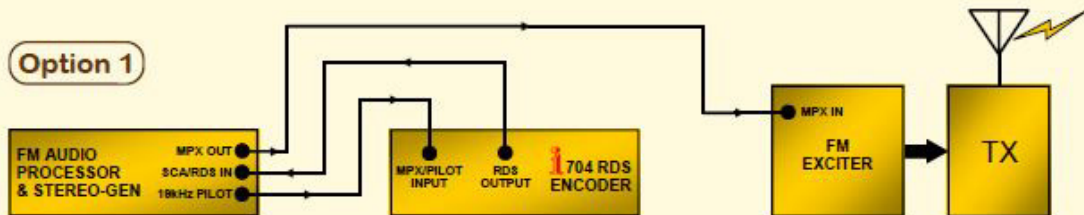
Power Requirements: +12VDC at 240mA. Two, paralleled coaxial DC power jacks (5.5mm x 2.1mm) allow the 704 to 'daisy-chain' with companion INOmini units. A universal 90-240VAC inline switching power supply is supplied.

Size and Weight: 1.8" (46mm) high, 5.3" (135mm) wide, 6.1" (155mm) deep; 4 lbs (1.8kg) shipping weight.

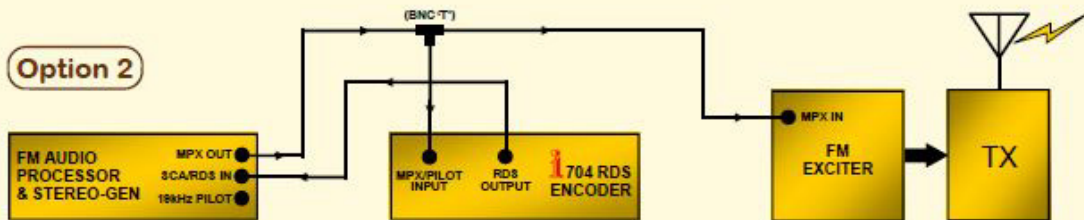
Mounting Options: An optional rack adapter accepts up to three INOmini modules in a 1U, 19-inch rack space. The INOmini 704 may also be fastened to any convenient surface with two small screws.

Hookup Options for INOmini 704 RDS Encoder

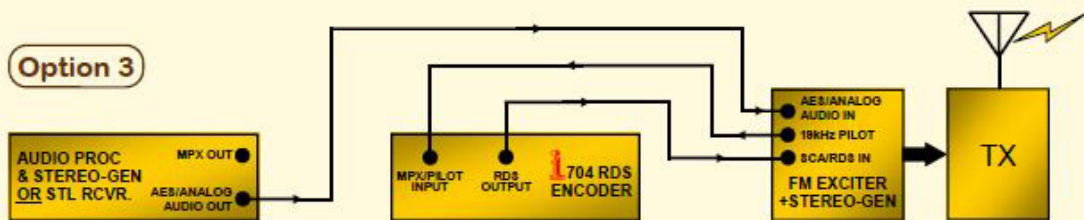
Option 1



Option 2



Option 3



Option 4 (Mono-FM)

