Inovonics 713

A Dynamic RDS/RBDS Encoder With Built-In Network Connectivity

THIS ENCODER HAS TCP/IP NETWORK ADDRESSABILITY FOR SCROLLING SONG TITLES, PROMOS AND ADVERTISING

The Model 713 is a full-function RadioData encoder that conforms to European and US standards for FM datacasting. It supports all service IDs and offers simultaneous scrolling-PS and RadioText messaging.

3-way addressability includes a front-panel USB port for fast and easy static register programming of station and format IDs, and for entering default scrolling or static text. In full-dynamic operation, station automation communicates either with direct RS-232 serial connection or with TCP/IP network protocol over a local area network (LAN) or the Internet.

Screen-entry Windows® software makes programming the 713 simple and foolproof. The 713 can 'parse' scrolling text, automatically breaking phrases into word groups, or can display text with the Inovonics "Safe-Scrolling" option.

Inovonics
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Features & Specifications

- Operates with any FM exciter and stereo generator. A dedicated 19kHz sync source is not required, and a failsafe relay bypass is built in.
- Connects directly to all popular radio automation systems to scroll song titles and advertising.
- Direct-entry programming software runs under Microsoft Windows® with TCP/IP network, RS-232 serial, and local USB connectivity.

STANDARDS SUPPORTED

European CENELEC and United States NRSC

RDS APPLICATIONS SUPPORTED

PI (Program Identification) A "digital signature" for your station derived from call letters in the US, or assigned by an appropriate authority in other countries.

PS (Program Service Name) The "street name" of your station that automatically appears on the receiver faceplate when scrolling-PS messaging is not enabled.

PTY (Program Type) This identifies your station format from a list of pre-defined categories to help listeners find their preference quickly.

TP (Traffic Program) This data flag identifies stations that include traffic bulletins as a routine part of their programming.

TA (Travel Announcement) A TA data flag is broadcast only during a critical traffic announcement. High-end RDS radios automatically retune to a station airing such an announcement, even interrupting CD or satellite sources.

RT (RadioText) This is a 64-character block of plain text messaging that can be scrolled on the faceplate of RDS radios equipped with an INFO or DATA button. RadioText is independent from scrolling-PS messages and may be sent concurrently.

AF (Alternative Frequencies) The encoder maintains a list of stations on a network or with rebroadcast translators. This allows radios to seek the strongest signal for a specific transmission.

DI (Decoder Information) Indicates whether the broadcast is monaural or one of several binaural, stereo or surround-sound options.

Rear view

M/S (Music/Speech Switch) A data flag to indicate music or all-voice programming.

FFG (Free Format Groups) The 713 can accept bit-by-bit programming to transmit hidden data within the RDS stream. Used for telemetry or for proprietary communications.

LOOP-THROUGH MODE

The encoder internally combines the RDS subcarrier with the composite/MPX input, which appears at the encoder output at unity gain.

SIDECHAIN MODE

Only the RDS subcarrier appears at the encoder output. It is subsequently combined with the composite/MPX program signal at the FM exciter.

PILOT OR MPX INPUT

Unbalanced, bridging BNC; accepts either a sample of the composite/MPX signal or 19kHz TTL-level sync from the stereo generator. Operation reverts to an internal crystal timebase for monaural transmissions.

RDS OR MPX OUTPUT

An unbalanced, 75-ohm BNC output to feed the wideband input of an FM exciter. The RDS subcarrier is continuously adjustable between zero and 2 volts p-p.

USB PORT

Front-panel access for rapid local programming of static data.

SERIAL PORT

An RS-232 rear-panel DB9 connector that can connect directly to station automation for dynamic messaging; 2400–115,200 baud.

NETWORK PORT

An RJ-45 'Ethernet' connection for TCP/IP programming of all encoder functions over a network or the Internet.

TA SWITCHING

The temporary TA flag is set either by a software command or with a momentary contact closure through a rear-panel terminal strip.

POWER REQUIREMENT

105–130VAC or 210–255VAC, 50/60Hz; 10W

SIZE AND SHIPPING WEIGHT

1¾"H x 19"W x 7"D (1U); 8 lbs.

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