
Inovonics 712 RDS Encoder SETUP Firmware Version 1.0.4 or higher ONLY

2007/11

DESCRIPTION

Serial – RS-232/V.24

Ethernet – TCP/UDP/IP – Using External Serial/Ethernet Device Server

The Inovonics 712 RDS Encoder must be configured properly before use with PADbridge. Proper initialization will insure connectivity and that after a power cycle, the RDS Encoder will not broadcast incorrect embarrassing data.

PADbridge may send data to the Inovonics 712 either through a Serial or Ethernet TCP/UDP connection, using an external Serial/Ethernet device server, such as a Lantronix UDS-10, Moxa NPort Express DE-311, or equivalent. All configuration and initialization is performed through the RS-232 COM Port, the Serial port, for either Serial or Ethernet operation. Additional configuration of the Serial/Ethernet device server is necessary for Ethernet operation.

Serial Configuration

Modem Cable – DTE-DCE Straight-Thru – Male to Female DB-9

RS-232 COM Port

9600-N-8-1 – No Flow Control – Echo Text

A terminal program such as HyperTerminal or PuTTY can be used.

For Serial operation using the RS-232 COM Port, only the Initialization section needs to be completed.

Initialize through Serial connection:

1. Using a computer, configure a terminal application configured for 9600-N-8-1 to the Serial port.
2. Connect a Modem Serial cable from the computer Serial port to Inovonics 712 RS-232 COM Port.
3. Initialize as described in Initialization section.

Ethernet Configuration

Modem Cable – Straight-Thru – Male to Female DB-9

RS-232 COM Port

9600-N-8-1 – No Flow Control – Echo Text

A terminal program such as HyperTerminal or PuTTY can be used.

For Ethernet connectivity, both the Initialization and IP Configuration sections must be completed.

Initialize and Configure IP through Serial connection:

1. Using a computer, configure a terminal application configured for 9600-N-8-1 to the Serial port.
2. Connect a Modem Serial cable from the computer Serial port to Inovonics 712 RS-232 COM Port.
3. Initialize as described in Initialization section.
4. Configure IP as described in IP Configuration section.

Initialization

ECHO=0↓	Disable Echo
PI=hhhh↓	Program Identification Code (HEX) (Generated from U.S. Call Letters)
PTY=n↓	Default Program Type – See PTY Table – DO NOT USE 30 or 31!!!!
PS=xxxxxxxx↓	Default Program Source
DPS=↓	Clear Dynamic Program Source
TEXT=<0...64max>↓	Default Radio Text Message
DI=x↓	Default Mono (0) / Stereo (1)
MS=x↓	Default Speech (0) / Music (1)
SAVE↓	Save to Non-Volatile RAM - Accelerator
RESET↓	Reset
After Reset - Verification ??↓	Returns ALL Values

IP Configuration

Configure Serial/Ethernet device server as per manufacturer procedure.

Moxa

Telnet

Program Type (PTY)

PTY	Program Type – US	Program Type – EU
0	None	None
1	News	News
2	Information	Current Affairs
3	Sports	Information
4	Talk	Sports
5	Rock	Education
6	Classic Rock	Drama
7	Adult Hit Music	Culture
8	Soft Rock Music	Science
9	Top 40 Music	Varied
10	Country Music	Pop Music
11	Oldies Music	Rock Music
12	Soft Music	Easy Listening Music
13	Nostalgia Music	Light Classics Music
14	Jazz	Serious Classics Music
15	Classical Music	Other Music
16	Rhythm and Blues Music	Weather
17	Soft R and B Music	Finance
18	Foreign Language	Children's Programs
19	Religious Music	Social Affairs
20	Religious Talk	Religion
21	Personality	Phone-In
22	Public Non-Commercial	Travel
23	College	Leisure
24	(unassigned)	Jazz Music
25	(unassigned)	Country Music
26	(unassigned)	National Music
27	(unassigned)	Oldies Music
28	(unassigned)	Folk Music
29	Weather	Documentary
30	Emergency Test	Alarm Test
31	Emergency!	Alarm!