

RDİ 20 - Technical Specifications : Technical Specifications

STATIC RDS CAPABILITIES

PI:
Program Identification

PS:
Program Service

AF:
Alternative Frequency List

DI:
Decoder Identification

MS:
Music/Speech Flag

TP:
Traffic Program Flag

PTY:
Program Type "RBDS"

PTYN:
Program Type Name

RT:
Radio Text

ECC:
Extended Country Code

DYNAMIC RDS CAPABILITIES

CT:
Time and Date

DPS:
Dynamic Program Service

RT:
Radio Text

RT+:
Radio Text Plus (JumpGate Hardware Required)

TA:
Traffic Announcement Flag

TDC:
Transparent Data Channel

IG:
Generic Insert Group

RDS/MPX OUTPUT

Connector:
Unbalanced, BNC female

Impedance:
50 ohms

Load:
> 500 ohms

Mode/Bypass:
Side-chain or loop-through operation (rear panel selectable) Loop-through includes passive (relay) bypass on fault or power fail

Broadcast Electronics

Technical Specifications

RDS Waveform:

DSP synthesized (100% digital signal generation)

Sample Rate:

171 kHz DAC (three times the carrier frequency)

Carrier:

57 kHz center frequency

Stability:

+/- 3 Hz over temperature when free-running (no pilot)

Bandwidth:

+/- 2.4 kHz from center frequency (cosine filter)

Spurious Signals:

> 80 dB down with RDS signal at maximum

Level:

-60 to 0 dB in 0.5 dB steps (4 to 4096 mVpp)

Phase:

+/- 180° in 2° steps

CONTROL INTERFACES

Front Panel:

Configuration of static parameters by front panel menu system

Console:

Front panel D9F DCE (RS232, 115200, 8N1, fixed)

RS232/422:

Rear panel (one D9F DCE, three D9M DTE, 300 to 115200 selectable)

Ethernet:

Rear panel RJ45, 10/100 auto-negotiating

Telnet:

Mirrors front panel console operation (authenticate by user/password)

UDP:

Mirrors rear panel 232/422 operation (authenticate by source IP address)

GPIO:

Rear panel terminal block, one form C relay, four ground contact inputs

HARDWARE DESCRIPTION

Physical:

1 RU (1.75" x 19" x 11"), 6lbs

Power:

Filtered IEC inlet, 115/230V selectable, 47-63Hz, 17VA nominal

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

