

### RDİ 20 - Technical Specifications : Technical Specifications

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#### STATIC RDS CAPABILITIES

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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

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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

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**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

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**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

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**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

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