

# DSP-D300 Specifications

## Processors

- 400 MHz 32-bit DSP processor with 24 bit A/D
- 50 MHz 32-bit ARM RISC processor for Ethernet
- 25 MHz USB processor

## Memory

- 4 MB Flash (option - expandable to 8 MB)
- 8 MB RAM

## Input/Output

- Radio audio interface: 600 Ohm balanced, transformer isolated, RJ-45
- Monitor Audio output: Remote level control, 150 mW into 16 Ohms, 3.5 mm stereo jack
- Input sensitivity: Adjustable from -50 dBm to 0 dBm
- Demodulator: FSK , 300 bps, 240 Hz shift
- Demod. center frequencies: 600 Hz, 1080 Hz, 1560 Hz, 2040 Hz (default), 2520 Hz., other frequencies/shift/bps optional
- Decode protocol: ALERT/IFLOWS (ADF, BDF, EIF)
- ALERT/IFLOWS ID range: 0000-8191 (remote and local programmable configuration)
- Modulator (option): FSK , 300 bps, 240 Hz shift
- Mod. center frequencies: 600 Hz, 1080 Hz, 1560 Hz, 2040 Hz (default), 2520 Hz., other frequencies/shift/bps optional
- Digital I/O: Ethernet (10/100 base/T) (RJ-45 connector)  
USB (2.0 compatible) (USB type B)  
RS-232C non- filtered (DB-9 connector)  
RS-232C with address filtering (DB-9 connector)
- Terminal data rates: RS-232 – 300-9600 bps  
Ethernet -10/100 Mbps  
USB -12 Mbps
- Ethernet protocols:
  - SSH 2.0 (U.S. Government Specification) (Secure Shell)
  - Telnet (RAW and with Protocol)
- Time/Date: NIST synchronized via internet
- Diagnostics: Local and remote IFLOWS status, system temperature, system power supply voltage.

## Physical

- Enclosure: Extruded Aluminum, rack mount option, NEMA option
- Size: 7.6 in. wide x 8.5 in. deep x 1.9 in. high
- Weight: 2.4 lb. (1.1 Kg.)
- Operating Temp.: -20° C to 50° C
- Power: +5 to +18 VDC @200 mA.  
(5.5 mm x 2.1 mm coaxial power jack, center +)

## Software

- USB Control: Control, configuration, logging and diagnostics  
( Windows 2000/XP)
- Ethernet: Client diagnostic packet logger (Windows 2000/XP)
- COM port: Client diagnostic packet logger (Windows 2000/XP)
- Log Report Generator: Optional – parses packet logs and generates usage reports  
(Windows 2000/XP, Linux)

