

**Rugged • Reliable • Flexible**

The Tait Radio Modem is a rugged and flexible data radio, offering communication equipment manufacturers and system integrators an ideal off-the-shelf solution for data transfer applications.

Utilising a proven radio platform, the Tait Radio Modem has a data transfer speed of 1200 baud using the FFSK format - providing high reliability over difficult radio paths.

The modem has been developed using leading edge technology, with a DSP-based signalling engine at its core. It is suitable as a standalone telemetry unit for use in point-to-point or point-to-multi-point data communications.

- Proven, Reliable RF Platform •**
- DSP Based Signalling Engine •**
- 1200 Baud Modem on Board •**
- Choice of Interface (3 Ports) •**
- Flexible Power Source 9-30V DC •**

## Tait radio modem



# Tait radio modem

## General Specifications

### Channels

16 channels - Binary code signal selection  
310 channels - Serial signal control

### Channel Spacing

12.5 kHz  
20 kHz  
25 kHz

### Frequency Range

For frequency band availability, contact your nearest Tait office or authorised dealer.

### Transmitter Power

1, 2.5, 5 VHF (66-225MHz bands)  
1, 2.5, 4 VHF (336-530MHz bands)  
1, 2, 3 (806-941 MHz bands)

### Operating Temperature Range

-30°C to +60°C  
(-22°F to +140°F)

### Input Voltage

9-30V DC Nominal

### Current Consumption at Idle (economy setting)

12V - 50 mA  
24V - 30 mA

### Receiver Sensitivity

> 117dBm (12dB SINAD test)

### Selectivity

> 66dB (12.5KHz) 70db (25kHz)

### Intermodulation

> 65dB

### Blocking

> 94dB

### Dimensions (L x W x H)

145 x 65 x 35mm  
(5.7 x 2.6 x 1.4 inches)

### Weight

270g  
(9.5 oz)

### Materials

Lightweight metal housing

### Accessories

Speaker microphone  
Programming lead

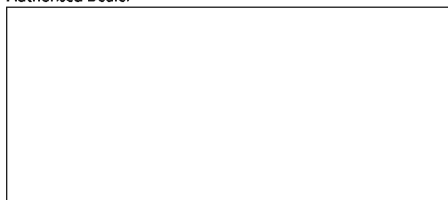
## Key Features

- 16 channels - Binary coded signal selection
- 310 channels - Serial signal control
- Programmable 12.5/20/25 kHz channel spacing
- Operating voltage 9-30V DC
- Powerful DSP based signalling engine
- Three interfaces as standard:
  - Port 1 - RX/TX audio port, external PTT, carrier detect, channel select and DC input
  - Port 2 - 1200 baud transparent modem
  - Port 3 - Speaker mic/connector (3.5mm and 2.5mm phone jack) for radio path testing purposes
- Programming port - Via RS232 port (port 2)
- Robust lightweight metal housing
- External LED indicator
- Comprehensive Windows™ based programming software

Tait is your complete supplier of radio communications equipment, with mobile, portable and infrastructure solutions. Tait is renowned for its flexibility, responsiveness and commitment to producing innovative world-class mobile radio communications products.



Authorised Dealer



Specifications are subject to change without notice and shall not form part of any contract. They are issued for guidance purposes only. For further information please check with your nearest Tait office or authorised dealer.

Tait Electronics Ltd is an ISO9001: 2000 and ISO14001: 1996 certified supplier.

[www.taitworld.com](http://www.taitworld.com)