

# Technical Specifications

File number: VCAN1915-25W

Product Model: VCAN1915-25W

Product Name: High-speed frequency-hopping  
radios

Preparation / Date:

Review / Date:

Approval / Date:

Revision number	Modifications	Date modified

# 1. VCAN1915-25W real picture of the whole machine



## VCAN1915-25W technical parameters of the whole machine

<b>Operating frequency</b>	410-480MHz
<b>Spread spectrum mode</b>	Frequency Hopping
<b>Modulation</b>	GMSK,2GFSK,4GFSK,QPSK
<b>Forward error correction</b>	Hamming,BCH,Golay,Reed-Solomon,Viterbi
<b>Error detection</b>	32 bits of CRC,ARQ
<b>encrypt</b>	Optional(see-AES option)
<b>Scope of communication</b>	More than 100 km, open and unobstructed
<b>Serial interface</b>	RS232
<b>Serial baud rate</b>	300bps to 230.4kbps
<b>Working mode</b>	Point-to-Point,Point-to-Multipoint,TDMA,Store&For-ward Repeater,Peer-to-Peer
<b>Signal interface</b>	RSSILEDs,Tx/Rx LEDs,Reset,Config, Wake-up,RSmode,4 Digital Inputs/Outputs,1Analog Input,1Analog Output
<b>Remote diagnostics</b>	Battery Voltage,Temperature,RSSI,Packet Statistics
<b>Out-of-band radiation</b>	Adjacent Channel @ 400 MHz:60 dB Alternate Channel @ 400 MHz:70 dB
<b>Operating voltage</b>	10.5-16V
<b>Power consumption (12V).</b>	Rx: 130mA Tx Peak: L 4A/H 6A
<b>connect</b>	Antenna SMA 5-core air seat
<b>environment</b>	-55 ~+85 5~95% humidity,non-condensing
<b>weight</b>	451g
<b>size</b>	105x79.5x42mm
<b>permission</b>	FCC Part 5.247 Pending IC RSS210 Pending FCC Part 15.90 Pending IC RSS119 Pending CE Pending

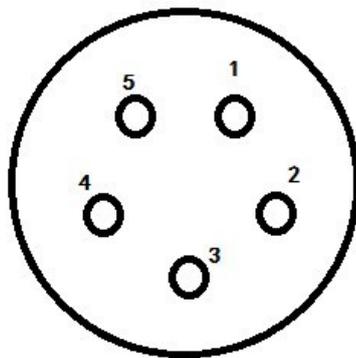
### 3. VCAN1915-25W interface description

## 25Watts PA power amplifier Radio Telemetry Data Link



- 1: Power / Data
- 2: Signal indicator: RSSI, TX, RX, CFG
- 3: Antenna interface (SMA female)
- 4: Power high and low switch (high on the left, low on the right)

### 4. VCAN1915-25W interface definition



- 1 ---- V+
- 2 ---- RXD
- 3 ---- GND
- 4 ---- TXD
- 5 ---- V-

### 5. VCAN1915-25W machine size drawing

