

# VIA

## CENTAUR

### VHF Airborne Radio (VA)

- Secure voice and data radio
- IP addressable
- Software upgradeable



# ITT

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# VHF AIRBORNE RADIO (VA)

Software programmable radios for tactical ground, air and sea use.

ITT is the VHF world market leader with over 390,000 radios deployed worldwide. The VHF Airborne (VA) is a fully secure voice and data radio that provides the highest level of security for airborne operations. We are able to provide this using AES 256 bit encryption and by allowing the radio to operate in three different secure modes – fixed frequency, frequency hopping and free channel search.

Every radio is stringently tested to surpass military specifications. The operational temperature of all radios exceeds -40°C to +71°C (+90°C

storage). The radios are robust, reliable and can be trusted in the most hostile of environments. Flexibility is key on the battlefield; the VA is software programmable and can be easily upgraded. The versatility of this radio enables networking with dismounted and vehicular units. The radio can be controlled either via a MIL STD 1553B bus or via a Radio Control Display Unit (RCDU). Hence the VA can be located remotely from crew positions. In addition, the RCDU allows the independent control of two radios.

## VA Overview:

- Fully interoperable with Centaur VHF ground, air and maritime radios
- Fully secure in both voice and data
- Resistant to jamming and interference
- Dedicated controller (RCDU) available for legacy platforms without MIL STD 1553 bus
- Better radio reliability provides serious long term customer savings



## Operational Benefits:

- Embedded IP router
- Open architecture IP data networking
- TCP/IP internet compatible
- Fully secure with world leading AES 256 bit encryption
- Multiple ECCM modes – secure fixed frequency, frequency hopping, free channel search
- MIL STD 1553 bus control available
- Software programmable
- Integrated homing receiver
- CVSD and MELP voice modes resist enemy jamming
- Backward compatible with existing analogue radios (STANAG 4204)
- Anti-vibration and hard-mounting trays available

## Ease of Use:

- Simple to use with standard controls for all VHF radios
- Compatible with most aircraft intercom systems



## TECHNICAL SPECIFICATIONS

Dimensions	140mm x 105mm x 295mm
Weight	3.2kg
Frequency range	30 to 88 MHz
Power output	10W
Data rate	16 kbps
Embedded Comsec	Yes
Embedded Transec	Yes
Platform	Helicopter, fixed-wing
Operational temperature	-40°C to +71°C incl. solar
Storage temperature	-55°C to +90°C incl. solar
Environmental	DEF STAN 00-35
EMC	DEF STAN 59-41
Power	24v to MIL STD 704
Reliability (MTBF)	>5000 hours
Maintainability (MTTR)	Remove and replace < 15 minutes No preventative maintenance or adjustments
Test	Full Built-In-Test (BIT) fault isolation

## Optional extras



Radio Control Display Unit (RCDU)



Airborne mounting trays





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