



TRUNET™ AR-2000 TWO-CHANNEL NETWORKING AIRBORNE RADIO

ADVANCED, AIR-GROUND NETWORK CONNECTIVITY

Right information. Right place. Right time.

Reliable, secure and advanced communication is key to your success – not only in today's advanced networking battlespace but also for assurance in future conflicts. The TruNet™ AR-2000 two-channel networking airborne radio is the latest and most capable fully exportable software-defined radio (SDR) receiver-transmitter.

The AR-2000 evolved from our proven advanced communication technologies. It is part of the TruNet networked communications solution family, which includes ground radios, advanced networking waveforms, apps, ancillaries and services. TruNet is the first solution

to ensure secure connectivity between ground and airborne elements across the entire battlespace.

Its adaptability enables the AR-2000 to conform to the latest SDR tenets and architectures. The unit's SDR architecture provides customers with two channels of communication and networking in a single radio for superior versatility and independence without the need for external power amplifiers.

Air, sea or land military forces depend on fully secure communications and interoperability, as do civil agencies supporting homeland security and disaster relief. The AR-2000 delivers this mission-critical capability through two channels, multiple waveforms, high-speed mobile ad hoc networked communications and beyond-line-of-sight connectivity for data, voice and imagery.



KEY FEATURES

- Enables proven, two-channel, fully secure communication
- Interoperable with Collins Aerospace and non-Collins Aerospace V/UHF air and ground radio systems
- Delivers critical, high-speed, ad hoc networked communications between aircraft and mobile ground forces
- Capable of beyond-line-of-sight connectivity for data, voice and imagery
- Enables software/network management
- Part of the TruNet networked communications solution family
- Type 1 cryptography



FREQUENCY RANGE

- Coverage: 30-1850 MHz with growth to continuous 30-2500 MHz
- VHF 30-88 MHz close air support
- VHF 108-118 MHz navigation
- VHF 118-137 MHz air traffic control
- VHF 137-156 MHz land mobile
- VHF 156-174 MHz maritime
- UHF 225-512 MHz military/networking/homeland defense
- UHF 764-805, 806-824, 851-869, 869-902, 935-941 MHz (public safety bands)
- L-band 1250-1450, 1755-1850 MHz (military networking)

CHANNEL BANDWIDTHS

5 kHz, 8.33 kHz, 12.5 kHz, 25 kHz, 1.2 MHz, 5 MHz, 10 MHz, 30 MHz and software definable

TUNING

1.25 kHz, 8.33 kHz increments

TRANSMIT OUTPUT POWER

- AM: 10-15 W (30-400 MHz)
- FM/PM: 15-23 W (136-400 MHz); SINCGARS 50 W (30-88 MHz)
- FM: 5 W \pm 1 dB (450-512, 764-805, 806-824, 851-869, 896-902, 935-941 MHz)
- FM/networking: 20 W (225-450, 1250-1450, 1755-1850 MHz)

EMBEDDED COMSEC FUNCTIONALITY

- KY-58
- KYV-5 (ANDVT)
- KY-100
- KG-84A/C
- KGV-11
- Thornton Smart Fill
- Fascinator (FED-STD-1023)
- MEDLEY
- HAIFE/SCIP
- Crypto modernization IAW Tactical Secure Voice (TSV-2)
- Fully software programmable to meet future cryptographic needs
- Type 1 and indigenous encryption capable

WAVEFORMS

- VULOS
- SINCGARS
- SINCGARS situational awareness
- SATURN
- MUOS
- Advanced networking (U.S. and NATO)
- Sovereign
- TSM
- SRW

Specifications subject to change without notice.

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