# Flexcomm™ RT-7000 Tactical Radio

**COBHAM**

Panel-mount P25 Transceiver and Controller

Brochure

The most important thing we build is trust

**THE ONLY PANEL-MOUNT RADIO THAT SATISFIES ALL PUBLIC SAFETY AND PARAPUBLIC VOICE COMMUNICATIONS NEEDS**

SEE IT FOR THE FIRST TIME IN EUROPE ON THE ADAMS AVIATION STAND AT PAVCON 2017

- **29.7-960 MHz AM/FM P25**
- **Trunking: P25 Phase 1 & 2, SmartZone, SmartNet**
- **Flight tunable**
- **Up to 3 embedded internal transceivers**
- **Connectivity for 2 external handheld radios**

## RT-7000: PANEL-MOUNTED FOR WEIGHT AND SPACE SAVINGS



### RT-7000 Panel-mount ATC COM/AM/FM P25 Transceiver

Cobham's RT-7000 Panel Mount Radio supports 29.7 to 960 MHz communication with up to three (3) embedded and individual channels, providing the equivalent of three (3) individual radios. In addition, the PMR supports up to two (2) external handheld radios.

The RT-7000 PMR includes an integrated audio and radio control display. All commands are supported by either the touch screen display or the easy-to-use dual concentric front panel knobs. All user control functions and operations are supported within three (3) menus selections.

As a software-defined radio, the RT-7000 line is upgradable as requirements evolve. When modules become obsolete, you won't need a new radio...you'll remain current with the latest technologies through software or hardware upgrades.

The RT-7000 PMR can perform P25 digital modulation across the entire range, plus up to two additional modules can be added to cover the VHF, UHF, and 700/800 MHz public safety bands, including trunking and Motorola-proprietary radio network features, enabling the user unprecedented communications interoperability.

The RT-7000 PMR is flight-tunable – including P25 frequency and NAC data. It delivers the widest frequency and modulation coverage, enhanced mission capabilities, and addresses all public service communication needs, in a high-reuse, common module, integrated modular architecture (IMA).

Each transceiver is designed with a single port antenna interface making installation of the PMR a breeze within all aerial platforms.

The RT-7000 PMR is compatible with RT-5000 antennas/other antennas.

RT-7000 features:

- ATC communications
- Touchscreen color LCD display with programmable day/night backlighting, including MIL STD 3009 NVIS
- Programmable preset channels (up to 1000)
- Programmable scan patterns
- Embedded simulcast and relay operations
- Trunking, P25, SmartZone, SmartNet
- Multikey FIPS-140-2 encryption
- Three embedded internal transceivers can be any combination of:
  - 29.7 – 960 MHz AM, FM, P25 conventional
  - Motorola APX-8000 modules

### Connectivity for up to Two Handheld Radios

THE SAL-7000 Portable Radio Interface provides a standardized connection from the RT-7000 Tactical Radio to over 20 different popular FM handheld models. Skye Avionics has engineered harnesses for Motorola APX, XTS, XPR, SRX, EX, PR, and MT models. The SAL-7000 is a reliable turnkey solution, comes remote or dzus rail mounted, and is DO-160 approved.
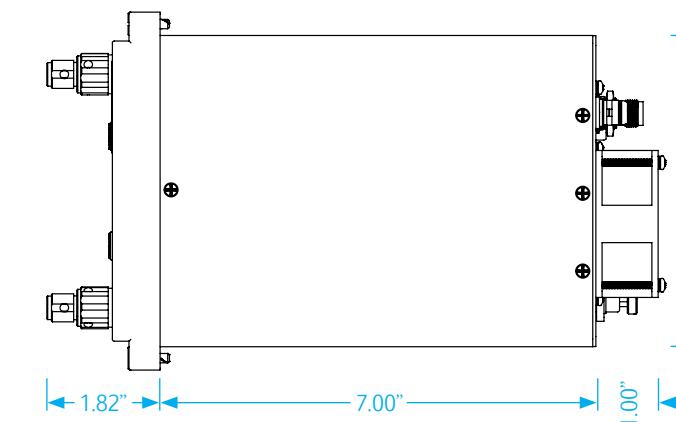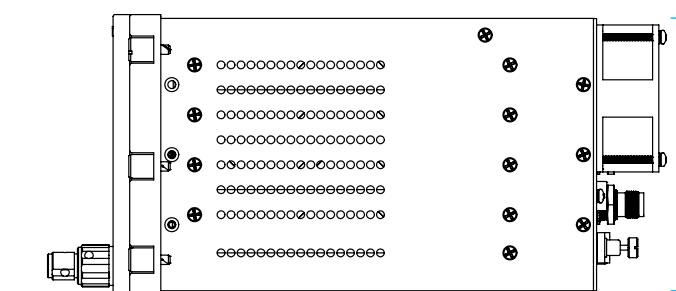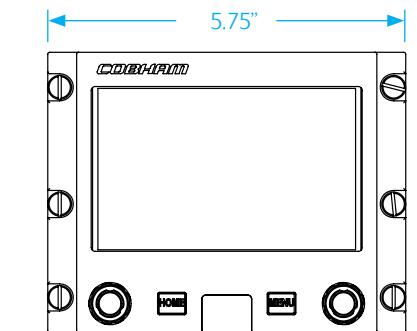




### Technical Specifications (preliminary, subject to change)

**Voltage Requirements**
27.5 Vdc +/- 20%

**Dimensions/Weight (approx.)**
Dimensions: see drawing (inch)
Max weight (approx.): 9 lbs. (4.08 kg)

**Channeling**
6.25/8.33/12.5/25 kHz

**Certification**
TSO/ETSO 169a ATC COM & C113 Display

**Frequency Range**
AM/FM Analog 29.7-960 MHz, including bands:

| Band | Type |
|---|---|
| 30-50 MHz | LMR |
| 30-88 MHz | Military |
| 87.5-108 MHz | FM broadcast |
| 108-118 MHz | VOR voice |
| 118-154 MHz | ATC and Civil Air Patrol |
| 136-174 MHz | LMR |
| 156-174 MHz | Maritime |
| 225-400 MHz | Military |
| 380-520 MHz | LMR |
| 764-960 MHz | LMR |

**Transmit Power**
- ATC COMS - 4W Min
- AM - 4W Min
- FM - 10W
- P25
  - VHF - 6W
  - UHF - 5W
  - 700/800 MHz - 3W

**APCO P25**
- All P25 Bands    Conventional Common Air Interface (CAI)
  Phase I, II Trunking
  Analog Trunking (SmartZone, SmartNet)

**Encryption**
- FIPS 140-2, Level 2/3
- P25 AES & DES
- Analog DES, DES-XL, DVP
- P25 OTAR
- Multikey

# About Cobham Aerospace Communications

Cobham's range of avionics and connectivity solutions are in use on helicopters, fixed wing aircraft, and UAVs worldwide, and include:

- **Cockpit:** Audio and Radio Management Systems, Headsets, Clocks, custom Instrument Panels, and Lights

- **Cabin:** Cabin Address and Interphone Systems, Wireless Audio Communication Systems, Wireless In-Flight Entertainment, JetLAN™ Office-in-the-Sky Servers/Routers, Lights, Ordinance Signs

- **Avionics:** Flexcomm™ and FliteLine™ Radio-communications, Radio-navigation, SELCAL, On-board Network File Servers, Safety and Maintenance Data Computer

- **Airframe:** Antennas, Lights

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