

RACAL ACOUSTICS

RA6000 TALON PTT SYSTEMS

PTT SYSTEMS

BENEFITS

- Four-channel PTT system operates two soldier Radios, platform intercom and platform radio
- Supports all common soldier radio systems, vehicle and aircraft intercoms
- Integral Active Noise Reduction (ANR) hearing protection option
- Supports Circumaural, In-the-ear, Low noise and Covert headsets types
- Enhanced Situational Awareness, Adjustable Talk-Through with Active Noise Limiting
- Enhanced Intelligibility with Communications volume level adjustment
- Ergonomic shape for comfortable left and right handed use
- Intuitive user interface with large tactile PTT buttons is simple to operate
- Medevac mode – supports person to person intercom
- Operates from one AA battery, from radio / intercom power, and without power
- Robust lightweight military grade construction for reliable use in harsh environments
- Optional three-channel wireless remote PTT



OVERVIEW

The advanced Talon PTT System is an ergonomically designed four channel Press-To-Talk (PTT) unit which provides simple connectivity to multiple communication sources. A convenient asset for mounted and dismounted operators alike, Talon allows the soldier to continuously monitor up to four communication channels simultaneously, typically two Soldier Radios, plus platform intercom and platform radio, and selectively transmit on them via four ergonomic and intuitive PTT buttons.

With a selection of headset styles suit all mission types, Talon ensures the soldiers' hearing is protected against continuous battle noise sources, including vehicles and aircraft, and provides protection against sudden acoustic shocks from weapons or explosions - while natural auditory perception is maintained.

ATTENUATION TABLE

Frequency (Hz)	125	250	500	1000	2000	4000	8000		
Passive Raptor (dB)	10	15	22	31	34	40	33	NRR 20	SNR 23
ANR Raptor (dB)	23	22	16	18	31	37	30	NRR 15	SNR 18
Frontier In-Ear Headset 566623	30	27	32	32	37	39	43	31dB*	36dB**

* Most trained users

** Motivated proficient users

RADIO CONNECTIVITY

AN/PRC - 117F	Motorola XTS-3000
AN/PRC-138	Motorola XTS-5000
AN/PRC-148 MBITR	MR3000 M3TR
AN/PRC-152	Nokia TETRA THR880i
AN/PRC-521	Radmor 3501
AN/PSC-5	Radmor 35010
Cobham Eagle	Selex H4855 (PRR)
Harris RF-7800S (SPR)	SmartPhone / MP3 Player
Kongsberg SR600	

Many other radios are supported.

INTERCOM CONNECTIVITY

FONET Vehicle Communication System
 LVIS® Light Vehicle Intercom System
 MESHnet (Bowman) Intercom
 NETCOM-V Vehicle Intercommunication System
 SOTAS Classic/M1, M2/IP Intercom
 TOCNET Tactical Operations Center Intercom
 VIC-3 ROVIS Vehicle Intercom Systems
 VIC-5 VIS-X Enhanced Vehicular Intercom System
 WISPR Intercom

Many other Vehicle and Aircraft Intercoms supported

ACOUSTIC PERFORMANCE

Input impedance for Radio 1 and Radio 2 ports is 1k Ohm.
 Output impedance typically 340 Ohms
 Powered from an internal 1.5V AA battery, >100 hrs operation
 Talk-Through Compression Threshold: Dynamically limits impulse noise to 91dB
 Talk-Through level – Adjustable up to +12dB gain

ENVIRONMENTAL

MIL-STD-810F: Operating Temperature -30°C to +55°C, Storage temperature -51°C to +85°C, Humidity, Sand & Dust, Explosive Atmosphere, Shock/Drop. ESD. Submersible to 2 metres (IP68)
 MIL-STD-461E Ground Army Limits, Immunity > 50V/m

Size and Weight: Height: 101mm, Width: 77mm, Depth: 40 mm, Weight: 242g (including AA battery)

NSN'S AND PART NUMBERS

TALON PTT	RA6000/4351/1	5820-99-213-7637
Carry Pouch	567734	5895-99-357-8835
Remote Wireless PTT	567733	5930-99-513-9405
Carry Pouch	567734	5895-99-357-8835
Frontier in-ear Headset	566623	5995-99-595-0800
Passive Raptor Headset	RA5000/1/9001	
ANR Raptor Headset	RA5000/1/9025	
Cobra Headset	565000	



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