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PR4G Fastnet

leverages field-proven PR4G technology

• PR4G F@stnet the worldwide reference in terms of ECCM protection thanks to more advanced radio procedures

A unique frequency-hopping waveform featuring automatic adaptation to the jamming environment using iixed frequency hopping/free channel search mode

Consistent synchronisation quality within the network, independently of GPS, guaranteeing Quality of Service (QoS) in the event of jamming

\$ Sophisticated anti-jamming (FEC) and voice compression (Vocoder) for enhanced transmission quality (voice, data) at all times

PR4G F@stnet is interoperable with all radios of the PR4G family and uses many of the same peripherals and accessories

• **PR4G F**@stnet, a software programmable radio designed for a range of waveforms

 \Diamond PR4G F@stnet uses digital signal processing technologies to ensure re-programmability and multi-waveform operation

the radio already incorporates 2 ECCM waveforms simultaneously:

• PR4G • F@stnet

VHF frequency is still the most cost-effective communication solution in terms of range, transmission speeds and channel access time needed in combat





is available in 10 W manpack, 10 W vehicular, 50 W single fit & dual fit vehicular versions

Main Features

VHF 30-88 MHz band coverage truly useable during combat
 Output power selectable up to 10 W
 Unique field proven 64 kbps ECCM waveform: frequency hopping > 300 hops/s
 High data rate transmission in frequency hopping

Embedded IP coupler to support tactical Internet implementation
 Ethernet 10 base T & standardised serial interfaces RS 232 / TCP-IP & PPP protocol to support networking
 Internal GPS for GPS localisation and broadcasting: Position reports available for visualisation on standard PC display or terminals
 Remote management via a standard SNMP protocol

High level of security thanks to Comsec & Transec encryption
 Possible customisation ensuring independent security control

¢ Cristal voice vocoder available @4,800 bps
 ¢ Available with STANAGs 4198 (2,400 bps) & 4479 (800 bps) vocoders
 ¢ 16 kbps CVSD voice coding mode

Comprehensive Man Machine Interface (MMI) on 4 lines graphical display
 Possible onboard installation of several radios, thanks to high performance cositing protection in power amplifier station

Autonomy: 24 hrs with Li-lon rechargeable battery or disposable lithium cells
 Reduced size and weight : 264x183x84 mm with handles, 3 kg (manpack)

Comprehensive logistic tools for maintenance tasks (I-Level)
 Interactive maintenance documentation & training tools



LAND & JOINT SYSTEMS

PR4G Fastnet



Ruggedized design:
Operational between -40°C to +70°C
Compliant with MIL - STD - 810 E & MIL - STD - 461 D standards



PR4G Fastnet Across the lines



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the only VHF over IP combat radio with a 64 kbps ECCM waveform

PR4G F@stnet provides a vital link for modern digital battlefield communications

A high speed ECCM frequency-hopping waveform guarantees effective radio operation under even the most stringent jamming

PR4G F@stnet provides an effective solution for combat requirements (CNR) and seamless communications with C3I command systems and weapon systems

- New user-friendly SImultaneous Voice & Data (SIVD) transmission service for recurrent and time critical data exchange (Weapon systems, C3I command systems)
 A major breakthrough compared to existing CSMA* techniques
- Robust, reliable & rapid communications for weapon systems with its TDMA modes
 Compatible with Simultaneous Voice & Data service
- End-to-end radio to C3I command system communications, based on IP technology to support Tactical Internet
 Packet mode over IP (PAS*) with radio channel access and IP routing optimisation
- Wide range of Combat Net Radio services
 Selective calling, automatic late network and traffic entry, break-in to send urgent orders, relays between combat networks
- Simple radio to battlefield computer connection to Thanks to Ethernet TCP-IP interface & PPP* protocol
- PR4G F@stnet positioning by GPS
 \$\overline{O}\$ On demand or programmed

 Telephone subscriber connection to tactical area networks (ACNRi*)

*ACNRi: Advanced Combat Net Radio interface *CSMA: Carrier Sense Multiple Access *PAS: Packet Access Service *PPP: Point-to-Point Protocol *TDMA : Time Division Multiple Access HIGH ECCM PROTECTION BY FAST FREQUENCY HOPPING & BUILT-IN ENCRYPTION

System / Command Control

TDMA FOR TIME CRITICAL COMMUNICATIONS



