

COMMANDER HANDHELD MASTER NETWORK CENTRIC TRANSFORMATION

- Multi-band V/UHF
- Accelerating collaborative combat
- Coalition and national missions
- Multi-service, open interfaces
- ESSOR, PR4G interoperable



RADIOCOMMUNICATION PRODUCTS AND SOLUTIONS

SYNAPS-H Lightweight V/UHF SDR





RADIOCOMMUNICATION PRODUCTS AND SOLUTIONS

SYNAPS-H

Lightweight V/UHF SDR

SYNAPS-H is the V/UHF Handheld terminal of the SYNAPS Networking Software Defined Radio family providing an easy and adaptable radio solution for network centric transformation of all Forces.

SYNAPS-H radio frequency module performance delivers an extended communication range.

Its backside mission module capability will allow an ad hoc extra band/channel (ISR, soldier...).

MULTI-MISSION

SYNAPS-H is multi-mission ready, both in national or international coalition operations.

It is dedicated to mounted/dismounted platoon and squad leaders, for their Ground-Ground, Ground-Air, Special Forces or Border surveillance missions.

SYNAPS-H can operate a comprehensive set of interoperability waveforms for Legacy, Coalition, US and NATO radios.

MANOEUVER and AIRPOWER unique waveforms are designed to support collaborative engagement with integrated seamless and secure end-to-end services. These MANET waveforms allow automatic join/leave, split/merge, ad hoc relaying networking, with extended range and frequency spectrum savings mechanisms.

MULTI-SERVICE

SYNAPS-H is part of a unified SYNAPS SDR network that allows seamless end-to-end connectivity with a wide variety of differentiated user services such as combat voice, messaging with reliable forwarding, Communities of Interest, chat, SMS, geographical BFT (Blue Force Tracking) and warnings.

EASY SETUP

SYNAPS-H is integrated in the SYNAPS network using the simple and automated SYNAPS network planning and mission management tool.

Main Features

General Characteristics

ESSOR SCA architecture – SCA 2.2.2 compliant, SCA 4.1 ready

Frequency range: V/UHF 30-512 MHz

RF output power: 5 W

Channelization: 8.33 kHz, 12.5 kHz, 25 kHz, 50 kHz, 75 kHz, 250 kHz, 500 kHz, 1.25 MHz (others on demand)

Built-in GPS receiver

NATO Restricted

Embedded programmable crypto

SYNAPS-WAVE (Waveform Library)

Advanced national networking waveforms

- MANOEUVER Command-Combat, Geo
- ESSOR HDR
- AIRPOWER-I (Ground to Air) (future)

PR4G and NextWave native interoperability

- Including GeoMux and GeoMux HD

International and NATO waveforms

- Tactical VHF and UHF, Stanag 4204 and 4205
- EPM HQI/II
- ESSOR HDR
- NBWF (future), COALWNW (future)

Interfaces

Control: dual PTT, keypad, screen, SNMP v3

Voice: standard analog and digital (VoIP)

Data: USB Host device and ethernet/IP

GPS: external MIL GPS connection

2nd channel mission module for ISR, Soldier...

Physical and Environmental

Weight: 1.2 kg with battery

Volume: 0.8 litre with battery

Environmental and EMC: MIL-Std-810G, MIL-Std-461F

Ancillaries

Headset: standard or lightweight

Antennas: short/long

Windows/Android remote control unit (smartphone, tablet...)

Battery chargers

Vehicular docking station and 50 W Booster with embedded cosite filters