TRG 6030-N
19” Rackable V/UHF EPM Transceiver

Multi-band / Multi-mode / Multi-service:
- 100-400 MHz, 30W AM / 100W FM
- Voice, data, tactical datalink services
- Joint & combined interoperability
- NATO and National secure modes
- Easy integration & operation
- SDR technology
TRG 6030-N
19” Rackable V/UHF EPM

NextW@ve Family

Multi-band/Multi-mode/Multi-service

TRG 6030-N is the ground/naval version of the tri-service
TR 6000/NextW@ve V/UHF product family, providing a
comprehensive multi-band / multi-mode interoperability, including
fast frequency hopping and data capabilities.

While preserving the full interoperability with legacy services of
the TR 6000 family, TRG 6030-N offers extended capabilities that
open new perspectives to enlarge interoperability and address
emerging NCO (Network Centric Operations) operational
concepts, in particular:

• 70 MHz IF interface, allowing connection to external modems
  (Wide Band SNR)
• Wide band capability, enabling high data rate waveforms,
  required to support new communication services.

Extensive Multi-band/Multi-mode capability
• 100-400 MHz for ATC, maritime and military interoperability
• Voice and data services for national and NATO joint/ combined
  interoperability

Easy integration & operation
• IP host interface and remote control solutions
• Friendly color touch screen MMI
• Optional embedded agile UHF cosite filter for frequency
  hopping operation in severe cosite environment

SDR technology
• Software programmable for new waveforms
• Flexibility during platform integration

MAIN FEATURES

General characteristics
• Frequency range: 100 MHz–400 MHz
• Frequency accuracy: ± 0.2 ppm
• Modulation type: AM, FM, MSK, FSK, other
  available via SW upgrade
• Channelization / Bandwidth:
  - Narrowband: 8.33, 12.5, 25 kHz
  - Wide band: 250 kHz (others on demand)

Physical and environment
• Dimensions (WxHxD): 19x6.96x19.7 inches/483x177x500 mm
• Weight: ≤ 62 lbs (28 kg)
• Mechanical / Climatic: MIL-STD-810G (ship borne, fixed
  site and ground deployable applications)
• Operating temperature range: - 25° C to + 55° C
• Storage temperature range: - 40° C to + 70° C
• EMC: MIL-STD-461F

Multi-mode capabilities
• Fixed frequency:
  - Clear/encrypted voice
  - L11, LY, L22 FF data links
• EPM/Frequency hopping:
  - Have Quick I/I (Stanag 4246)*
  - SATURN (Stanag 4372)*: Voice & Data/L22 EPM
  - National EPM: Voice (FFH-SV) & Data (FFH-LX), High data
    rate (TDMA-IP)
• EPM / COMSEC:
  - External KY 58/KY 100 or equivalent
  - Proprietary embedded COMSEC

Receiver
• Sensitivity:
  - AM: -104 dBm (weighted to ITU-T), 30 % mod.
  - FM: -109 dBm, ± 2.4 kHz deviation

Transmitter
• Carrier output: AM 32 W - FM 100 W

Guard receiver
• VHF: 121.5 MHz, 156.8 MHz
• UHF: 243 MHz
• Others on demand (synthesized receiver technology)

Interfaces
• Power supply: AC: 115 V/60 Hz, 230 V/50 Hz - DC: 28V
• Control:
  - Remote: Ethernet IP/SNMP
  - Local: integrated control panel
• External crypto: KY compatible
• Precise Time Interface: GPS compatible
• IF 70 MHz: external modems
• Antenna: single or multiple antenna installations

Configuration
• TRG 6034: NATO EPM HQ & SATURN
• TRG 6036: National EPM, optional NATO EPM HQ/I/II*
  & SATURN*

* Subject to Governmental authorizations