Selex ES
A Finmeccanica Company

Homeland Security & Critical Infrastructures

ELETTRASUITE
VS 3000

ElettraSuite VS 3000 combines the power and performance of the VS 3000 TETRA radio unit with the extreme flexibility and ease-of-use of FPG3 front panel.

VS 3000 radio has a sturdy and durable aluminum die cast structure, compliant with most military standard environmental conditions for shock, vibrations, dust and water (IP 54) and the FPG3 front panel is compliant to IP67 for secure installations on motorcycle or patrolling boat.

VS 3000 radio unit is ready to support dual-mode functionality to allow soft migration from conventional FM to TETRA, saving costs and operational effectiveness.

Additionally multi-slot data transmission capability, DMO Repeater/Gateway features, Air Interface and End-to-End Encryption and integrated GPS receiver make ElettraSuite VS 3000 fulfil the most demanding mobile communications requirements of mission critical users in a comprehensive range of operational scenarios.

Powerful mobile TETRA unit

Finally Selex ES proposes a desktop solution named FC3000 for small radio office applications, such as emergency response control rooms, event management, small police offices or - in a cargo port environment - crane operators communication posts.

KEY FEATURES

- Dual Mode FM-TETRA
- 4-slot data transmission capability (max provided by TETRA standard)
- DMO Repeater/Gateway feature makes it possible to communicate even outside the network coverage
- Air Interface and End-to-End Encryption (AES 56/128. IDEA, Custom 126-256 bits on demand)
- Embedded GPS positioning and TETRA standard LIP protocol support
- Bluetooth connectivity
- High water and dust protection (IP67) for motorcycle and boat installations

TECHNICAL SPECIFICATIONS

Frequency bands	380MHz – 430MHz 410MHz – 470MHz 806HMz – 870MHz
Channel Bandwidths	TETRA/FM: 25KHz FM: 12,5KHz and 25KHz
Modulation schemes	TETRA: π/4 D-QPSK FM mode: Angle modulation FM/PM (conventional)
Receiver Class	Class A+B (ETSI EN 300 392-2 / ETSI EN 300 396-2)
Sensitivity	Static: -112dBm Dynamic: -103dBm
Power Supply	Nominal +12Vdc (range +10.8 to 15.6Vdc)
AF power	8w @1KHz into a 4 Ohm load

Transmit power

TETRA	ETSI EN 300 392-2 Power Class 2 (10W nominal) ETSI EN 300 392-2 Power Class 3 (3W nominal)
FM mode	10W

Environmental conditions

Climatic conditions	Installation: according to ETSI EN 300 019-1-5 class 5.1 (-25 °C to +70 °C) Operative: -25 °C to +55 °C (radio unit), -25 °C to +60 °C (management panel) Storage: -40°C to +70°C (radio unit), -40 °C to +85 °C (management panel) Transport: according to ETSI EN 300 019-1-2 class 2.3
Water & Dust protection	Radio Unit: IEC 60529 class IP66 and IP67 Management Panel: IEC 60529 class IP54 (vehicular, fixed), IP67 (motorcycle, boat)
Mechanical conditions	ETSI EN 300 019-1-5/6 Class 5/6M3 & IEC 721-3-7 MIL STD 810 D/E - Method 516.4/5, procedures I / V MIL STD 810 D/E - Method 514.4/5, procedure I, category 20

Mechanical features

VS 4000 radio unit	Dimensions (H x W x D): 48 x 172 x 188mm Weight: 1850g
FPG3 management panel	Dimensions (H x W x D): 58 x 185 x 50mm Weight: about 460g

CE Marking

CE marked	Radio unit: according to R&TTE directive 1999/5/EC Management Panel: according to the ETSI EN 55022 class B and ETSI EN 55024
EMC	TETRA: ETSI EN 301 489-1 and ETSI EN 301 489-18 FM Mode: ETSI EN 301 489-5 Bluetooth: ETSI EN 301 489-17
RoHS	Radio unit: compliant Management Panel: Compliant with ETSI EN 60950 European Directive 2000/53/CE, 2002/95/CE, 73/23/CEE, 93/68/CEE

GPS

Antenna	Integrated in TETRA antenna
Channels	20
Acquisition sensitivity	-155dBm
Tracking sensitivity	-159dBm
Position accuracy	5m

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