## A REAL DUAL-MODE... ANALOG + DMR



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### Hardware Configuration: Base Station

LANDER DMR radio terminal is available in different hardware configurations, which allow the use in various fields:

LANDER DMR terminal, connected to EMC WILL power supply, allows operators to communicate with the whole fleet both in analog and DMR mode. Integrated speaker, together with microphone, allow clear and fast communications.



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**EMC WILL power supply** has been designed to work at 12Vdc and 220Vac, with automatic switch to battery backup in case of electrical black-out.

## Hardware Configuration, DataLander DMR

LANDER DMR radio terminal has been designed and created to work without front in **DataLANDER DMR** version for specific datas transceiving applications.

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#### **Connections:**

- 1) RS232 (DB9)
- 2) AUX (DB15)
- 3) GSM/GPRS Antenna
- 4) GPS Antenna
- 5) Power supply
- 6) Radio Antenna

#### Analog Data Transmission:

- Via integrated radio modem
- □ 1200 / 2.400 bit/s
- □ Communication protocol: ETSI 300-230

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- □ 95+95 characters with programmable serial protocol
- Programmable Error Correction: Hagelbarger

#### Digital DMR Data Transmission:

- 2 data slots
- up to a 4.800 bit/s for each slot
- 1.024 byte Packets
- Communication Protocol: ETSI DMR
- Programmable Error Correction: raw, 3/4, 1/2

## Advanced Management of radio unit and front

LANDER DMR technology allows an advanced management of radio unit and front, in particular:

#### Managing a radio unit with n°2 fronts

connected frontally and posteriorly. Usefull in activities which involve two operators working in different places.

## Managing n°2 radio unit with an only front.

Usefull to operate, through an only front, with two radio unit on different frequency bands (i.e. VHF and UHF) or to manage **transponder mode**.



Bicoloured Display with automatic back-lighting

# Image: Construction of the second second

**Bicolured display to differentiate radio visualizations** with different lighting modes.

By programming the following modalities can be set:

- standard mode with white display background
- red mode with RED display background
- flashing mode in white red background colors

**LANDER DMR** mobile terminal display is completely customizable via programming software: fields positioning , fonts, characters dimensions, icons, icons position on the display, ...

**Backlight** can be automatically controlled from terminal software using light sensors or set from radio menu.



EMC Partner and

Official

Distributor:



AVIONIC SERVICE GmbH / Srl L.-Galvani-Str. 6/E Via L. Galvani | I-39100 Bozen / Bolzano Tel. +39 0471 506 963 | Fax +39 0471 921 418