

Light OTS/OTB The outdoor TETRA network solution for easy, fast and "cost-effective" deployment

ELETTTRA
Light

Unique on the market, ELETTRA Light allows to exploit full benefits of TETRA in a wide range of critical scenarios.

It is a modular system, designed to be versatile and suitable to satisfy users who need reliable, rugged, easy-to-install and transportable TETRA platform.

Everywhere.

EFFECTIVE

Although based on a unique product concept - ELETTRA Light - is offered in two configurations for best addressing different user needs:

- > **Light OTS (Outdoor Transportable System).**
- > **Light OTB (Outdoor Transportable Base Station).**

Light OTS can operate either as a complete single-site TETRA network infrastructure or as the switching core of a compact, flexible and rapidly deployable TETRA network.

The **Light OTB**, is an outdoor TETRA base station allowing either connection to any ELETTRA switch as element of a multi-site network or stand-alone operations based on the feature-rich fallback capability of all ELETTRA base stations.





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Transportable, "All-in-one", scalable single site

Thanks to **Light OTS** all equipment needed to benefit of the full set of TETRA services is housed inside a compact and transportable rack.

Light OTS provides interfaces to PABX, PSTN and ISDN networks in order to provide the TETRA users with direct communications to external telephony or data systems, including satellite radio.

Optional, easy-to-assemble anti-shock mechanical kit is available to allow the transport of ELETTRA Light even onboard of vehicles moving over rough terrain.



Outdoor compact base station

By means of **Light OTB** it is possible to cut down drastically both capital and operative expenditure for TETRA networks. Thanks to compactness and outdoor operation capability, radio site installation does not require the expense to build, buy or lease shelters for the base station.

In addition installation is very easy and fast hence reducing the cost for these activities as well.

Light OTB provides a consistent set of TETRA features even operating in stand alone (fallback) mode; this means that cost-effective single site capability is available also for users not needing the full TETRA feature set.

WHEREever WHENever

Where working under very harsh environments, When under severe and mission critical conditions, **Where** and **When** a reliable and fast deployment communications are vital ELETTRA Light is your ideal solution.



Networking

Light OTS can be connected to Light OTB (or ELETTRA indoor Base Stations) and dispatchers in order to build flexible and rapidly deployable TETRA networks, each of up to 8 base stations with 4 dispatchers (3 remote and 1 local).

Incomparable Reusability

Deployed ELETTRA Light equipment can be further integrated within an ELETTRA network thus allowing the complete functional inter-working of ELETTRA Light in any existing ELETTRA infrastructure (e.g. for a smooth network growth).

Ready-to-use

Both ELETTRA Light configurations provide an excellent capability to address fast-reaction scenarios within environments not covered by radio networks (e.g. rural or mountain areas).

ELETTRA Light includes internal batteries and is already equipped with the antenna in order to allow very fast set-up and operations once placed in the area to be served.

In a few minutes it is possible to switch on the system and start communications with no installation activity before; batteries support 20 minutes independence hence allowing to set-up external power suppliers while communications have already started.



TECHNICAL SPECIFICATIONS

Frequency ranges: 380÷400 MHz, 410÷430 MHz and 450÷470 MHz

Number of carriers: 2

RF output: 15 W / carrier @ antenna connector (class 3)

Minimum number of antennas: 1

Interfaces:

- E1
- ISDN PRI/BRI
- Analogue / digital PABX / PSTN
- LAN 10/100 Mbit
- Satellite radio system
- RS-232
- GPS

International standard:

- Fully compliant with ETSI ETS 300 392-2
- Certification of conformity to ETSI ETS 300 394-1
- Safety: EN60950 A1, A2
- Certificate CE
- EMC: in accordance to ETSI ETS 300 827

Environmental conditions:

- In accordance to ETSI ETS 300 019-1-4 class 4.1 (with optional anti-shock system)
- Operating temperature:
 - **OTS:** -33 °C +40 °C (also under direct solar irradiation)
 - **OTB:** -33 °C +55 °C
- Water & Dust protection: IP 55

Power supply:

- Standard: 220/110 Vac, -48 Vdc
- Optional: +24 Vdc

Physical size (HxWxD, mm): 1150 x 795 x 600

