Claricor® Cell
10-minute deployable TETRA network

When people need to communicate together, especially as teams, a professional mobile network is a great choice. By choosing the rapidly deployable Claricor Cell for PMR network, the secure radio communication can start in minutes.

Claricor Cell is a complete radio communication network. Set it up on an industrial site, in a storage area or a warehouse, or at a harbour and people can communicate over radio. Teams can be in touch and stay in touch, keeping the communications private and secure.

Claricor Cell is a network on its own, but it can also be used as the transmission medium for a base station that is infrequently used. Such a base station, especially in a remote area, can be expensive to keep connected using a leased line or a satellite connection. Claricor Cell can connect to a commercial LTE network, and with this, the base station will have the required transmission channel.

Thanks to diverse power and transmission options Claricor Cell is handy to use as a mobile base station. For convoys, Claricor Cell provides a continuous, reliable connection, safe from eaves-dropping. The compact size offers an exceptional opportunity to set Claricor Cell up even into a car or a van, and the secure communication network moves with the crew.

Claricor Cell's ruggedized, IP55 rated structure is suitable for almost all installation environments. The colour of the deployable cabinets can also be customised to merge with the surroundings.

Setting up private radio communication no longer requires telecommunication specific competence. Claricor Cell can be delivered completely pre-configured. As soon as the deployable cabinets are put in place and the power is turned on, the radio communication can start.

AIRBUS

Claricor® Cell – flexible, efficient & mobile

Rapidly deployable solution saves money and time

Ready to run

Claricor Cell is a complete radio communication network that can be delivered fully pre-configured and ready for operation in the field. Switch on the power, set the equipment up with simple GUI, and the network is available for communication.

Scalable solution

Claricor Cell scales from one base station configuration up to 25 base stations configuration. With one deployable cabinet only, Claricor Cell can provide voice, status and data services to the radios locally, but it also easily extends to large coverage with the full set of features and applications for the users - depending on the need. The functionality can rapidly be added either by connecting the Claricor Cell deployable base station to the existing TETRA network or by implementing Claricor Cell deployable server (Taira 210) as a switch for several base stations.

Features and functionalities

Claricor Cell always delivers the set of functions and features that has been selected based on our 20 years of experience in TETRA users' needs.
- Group calls
- Individual (one-to-one) calls
- Emergency calls (group as well as one-to-one)
- SDS (text messages)
- Status messages

With Claricor Cell deployable server, also the following features are integrated in the ruggedized PC.
- RCS lite dispatching
- Taira TETRA server's graphical user interface for network configuration
- Taqto® management tool for radio configuration

Set up practically anywhere

There are countless installation options for Claricor Cell. The hardware is installed into ruggedized outdoor cabinets and, with the covers closed, the cabinets have IP55 protection rating against dust and water jets. In case the deployable cabinets need to merge with the surroundings, the cabinet colour can be customised according to customer's RAL colour chart definitions.

Get connected – it's easy

The Claricor Cell has several options for transmission:
- fixed line
- IP radio link
- commercial LTE
- satellite.

By connecting the Claricor Cell deployable base station to the existing TETRA network, the full set of TETRA features can be utilized.

Runs almost on anything

Claricor Cell has both AC and DC power options. Designed for mobility, Claricor Cell is able to run on a wide variety of power sources: an aggregate, solar panels, the battery of a vehicle, power grid, or backup batteries, for example.

Coverage

The coverage provided by Claricor Cell depends on antenna configuration, antenna height, radio frequency, number of base stations, and the type of terrain and environment.

Typical range for a single site in an urban area with a 5-meter antenna is around 2 km.

Typical range for a single site in an open area with a 20-meter antenna is around 7 km.

Technical specifications

Height x Width x Depth:
670 x 638 x 550 mm (w/o handles)

Weight:
Deployable server cabinet ~74 kg
Deployable base station cabinet 70-84 kg
(e.g. TB3hp 2-carrier installation ~79 kg)

Operating temperature: -20 ºC ... +50 ºC

Input power: 230 VAC and/or 12VDC

Typical power consumption:
Deployable server cabinet 120 W
Deployable base station cabinet 80-260 W
(e.g. TB3hp 2-carrier installation ~250 W)

Telecommunication interface: IP and E1

Frequency bands: 380 MHz, 410 MHz, 450 MHz and 800 MHz

Environmental standards:
Dust and waterproof classification IP55