



## Cradle kit SED

Cradle kit SED is designed to easily upgrade existing TrainTalk™ models including OVK4 and Bury CarTalk to work with the new SED phones OPH-810R and OPS-810R. Cradle kit SED can replace the TiGR350R holder without rebuilding.

The new holder have also interface for external PTT and it provides 3 dB higher antenna signal, which provides better coverage.



### How to install Cradle kit SED.



1. Remove the old TiGR35R holder and its bracket.



2. Undo antenna cable and D-sub connector.



3. Mount the bayonet bracket for the Cradle kit SED.



4. Connect the D-sub connector and the antenna cable.

## Charger for GSM-R

The CH2000 charger for train use keeps your GSM-R handset / backup solution charged at all times, and includes a CU-unit, base plate and cradle (Cradle exchangeable for future phone models). Compliant with the EN 50121-3-2 (2006), EN 50121-4 (2006) and EN 50155 standards. Power supply 12VDC/24VDC. 105x125x30mm. We recommend CH2000 for safety reasons.



## Three decades of devotion to security

Malux Sweden AB is the industry-leading provider of complete security solutions. Through high technical expertise, customer-focused service and the broadest product range on the market we help make the world a safer place. Malux specializes in three distinct areas of operation: industrial solutions, lighting and communication.

Malux Sweden AB has delivered GSM-R handsets and related solutions to the Nordic market since 2007. Malux TrainTalk is the successor to the reliable, proven OVK4 GSM-R platform which has seen service in the Swedish market since 2008.



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# Safe GSM-R communication



Malux new range of GSM-R train terminals from SED





# Efficient communication - keeping trains moving

## Proven solutions - Innovative functions

Combining the trusted TrainTalk™ system with the innovative functionality made available through SED GSM-R Operational Purpose Handsets allows for effective, timely - and above all - safe communication in all situations. The operator can move throughout the vehicle without switching to a different means of communication. Specifically designed to withstand the often extreme conditions faced by railway staff, the Malux handsets and communication solutions allow for unparalleled flexibility in all environments.



## OPH/OPS-810R SED

The OPH-810R & OPS-810R are designed as Operational Purpose Handsets. The OPS model is largely based on the OPH model but is specifically designed for the needs of the shunting application.

The handsets are specifically designed to withstand shocks and vibration, as well as various temperature and humidity conditions. All part of the often extreme conditions faced by railway staff. In particular, the handhelds are fitted with high capacity batteries suitable for low temperatures. The handhelds are also designed to be used in noisy environments and provide dedicated buttons for main features such as push-to-talk.

The Operational Purpose Handheld Shunting (OPS-810R) is largely based on the OPH-810R and is equipped with software supporting shunting functionality such as LAS signal transmission and Man Down function with GPS.

### Functions

- Compliant with UIC EIRENE
- Supports Advanced Speech Call Items (ASCI) phase 2+ with GPRS
- Passed the EIRENE test of DB Systemtechnik
- TÜV certified.

**Solutions specifically designed to face the often extreme environments and conditions faced by railway staff. Be it various temperatures, high humidity or shocks and vibrations.**

## Various Accessories



We have a wide range of accessories for our train terminals, such as:

- Charger
- Desktop multi charger with battery bay
- Clip holder
- Chest tables
- Leather case
- Car charger etc.



## GPH-650R SED

The GPH-650R is the world's first GSM-R smartphone for rail and train personnel. It has everything you can expect from a GSM-R phone, combined with all the customization capabilities of the Android operating system. In addition, GSM-R and 4G / LTE are running simultaneously, thanks to the phone's dual SIM card reader and dual processors. This allows you to always have access to all the features of the phone.

### EIRENE functions

- Group call/Broadcast
- Railway Emergency call
- Functional numbering management
- Enhanced Multi-level precedence and pre-emption (eMLPP)
- Railway communication dialing.



## GPH-610R SED

The GPH-610R SED is designed as a general purpose handset, adapted to the GSM-R wireless network environment. Complying with UIC EIRENE, and supporting Advanced Speech Call Items (ASCI) phase 2+ with GPRS, the SED GPH-610R has passed the EIRENE test of DB Systemtechnik and is TÜV certified.

### EIRENE functions

- Group call/Broadcast
- Railway Emergency call
- Functional numbering management
- Enhanced Multi-level precedence and pre-emption (eMLPP)
- Railway communication dialing.



## What is GSM-R?

Global System for Mobile Communications – Railway or GSM-Railway is an international wireless communications standard for railway communication and applications. It is used for communication between train and railway regulation control centres. The system is based on GSM and EIRENE specifications which guarantee performance at speeds up to 500 km/h (310 mph), without any communication loss.