



NSL's Telecommunication and Navigation system provides a communications and navigation portal for train-to-shore and shore-to-train information exchanges as well as feeding the precise location of the train to other onboard systems

Key components:

3G/GPRS

- Dual SIM with choice of networks

WiFi

- Dual Wifi for shore-to-train and on-train connectivity

Positioning

- High sensitivity GPS and/or professional grade multi-constellation GNSS

Computer

- Linux or Windows OS and host software
- High performance (processor, RAM, storage)
- Ethernet, USB and RS232 connectivity

Antenna

- Roof mounted combined 3G/GPRS/GNSS/Wifi
- Internal Wifi dome

Options

- Multi-channel Video/CCTV input
- Inertial navigation system



Train systems logging and analysis includes:

- Control systems
- On-Train Monitoring and Recording System
- Tachometer and wheel sensors
- Cab switches
- Passenger counting systems
- Door status
- CCTV

Design features:

- Modular and stackable construction
- Supporting tailored configurations
- High density I/O connectors
- Rail Qualified EN 50155
- Software to ECSS (DO178B) standards
- Isolated power supply
- Vibration resistant rigid enclosure structure
- Extended temperature range (-25°C to +70°C)



Nottingham Scientific Ltd, Loxley House, Tottle Road, Nottingham, NG2 1RT, UK

Tel: +44 (0)115 9682960 Email: enquiries@nsl.eu.com Http: www.nsl.eu.com