

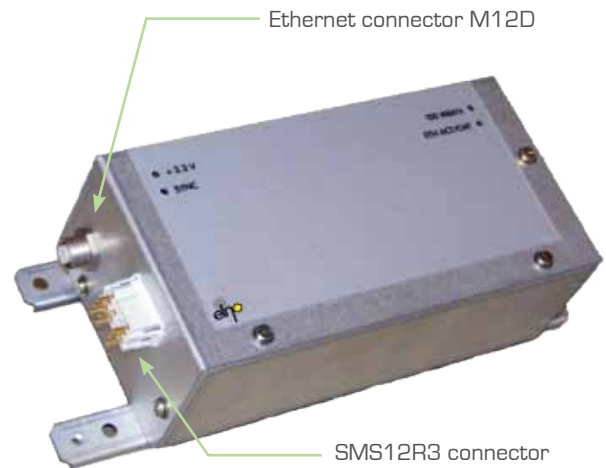
HSM

HIGH SPEED MODEM
FOR RAILWAY APPLICATION

Plug & Play
Ethernet, sDSL on audio UIC line
Refurbishment program

BENEFITS

- Cost effective solution to exchange data on refurbished UIC train
- No coupler upgrade required (use of audio UIC twisted pair)
- Safety application (CCTV, Audio, Data)
- Easy to install: automatic synchronization between 2 HSM.



APPLICATIONS

IP is the up to date technology for refurbishment programs of Passenger Information Systems, Public Address Systems, CCTV and Passenger counting.

The challenge is to provide a cost effective solution for the information exchanges between coaches or trains. This is the purpose of **HSM** designed by ELNO.

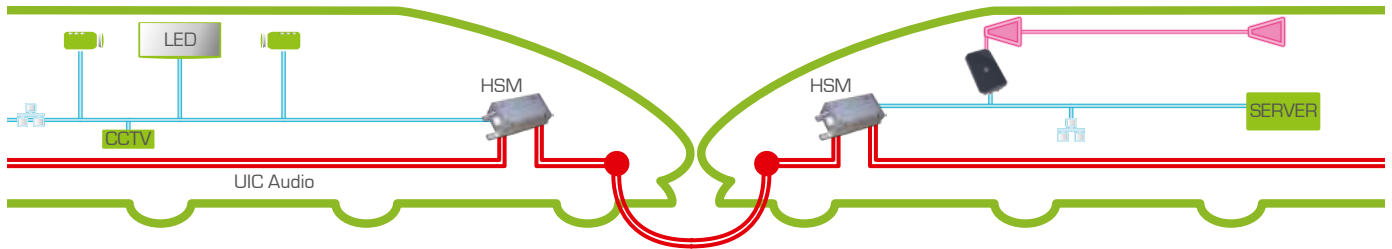
The **High Speed Modem** allows to transfer data up to 4 Mbps between two carriages using the available UIC lines (i.e. no coupler upgrades), and can be dedicated to security application.

The solution is very simple to install: plug the **HSM** in each carriage to the IP network, link them together by a shielded pair. The gateway between the two IP networks is ready to be operated.



HSM

BLOCK DIAGRAM



FEATURES

- Modem for safety data between 2 carriages or trains
- 10/100 base-T Ethernet
- Up to 4 Mbits/s on sDSL line
- Weight 1.2kg
- Power 72V DC EN50155
- UIC line impedance 100Ω
- No tuning or specific configuration required
- Compact packaging

INTERFACES

- 1 Ethernet M12D connector
 - up to 4 M12D connectors
- 1 SMS12R3 connector:
 - 2 input for UIC audio
 - 2 outputs for sDSL shielded pair
 - 5 pins for 4/1 logical I/O
 - 2 pins for supply

ENVIRONMENTS/EMC

- Operating temperature: -25° to +70°C
- Storage temperature: -25° to +85°C
- Standards: EN50155, EN50121-3-2, STME001