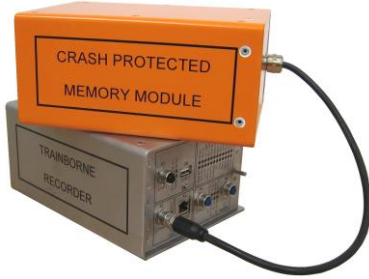# logiplus

Trainborne Recorders ▶

Crash Protected Memory Modules ◀

Mission-Tag Readers ▶

Tone Generators ◀

Safety Speed Indicators ▶

SIL2 Safety Displays ◀

SIL2 PWM
Traction/Brake Controllers ▶

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Trainborne Recorder Unit

The Trainborne Recorder Unit (TRU) is a New Generation universal Ethernet-based product that records in one unit various train information such as ERTMS signalling data, general signalling data, train diagnostic data, voice or even video information.

Linux based product, Ethernet backbone, two M12 Ethernet train links for IPTCOM or CIP communication, integrated optional Crash Protected Memory Module, Web-based user interface.

Ethernet, Profibus, MVB, CAN, Voice-recording, RS422, RS485, GPS, GSM, Analog, Speed measurement and Logic inputs interfaces.
The flexible architecture allows easy custom design for specific functions.

Trainborne Recorder Unit Lite

The Trainborne Recorder Unit Lite (TRU Lite) is a compact unit especially designed for metro or tramway applications.
Speed measurement interface, speedometer interface, 16 logic inputs, 1 logic output, RS422/RS485 interface.
Two M12 Ethernet train links for IPTCOM or CIP communication, integrated Memory Module or external Crash Protected Memory Module, Web-based user interface.

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Crash Protected Memory Module

The Crash Protected Memory Module (CPMM) fulfils world standards such as the European EEIG 97E461.3, the British GM/RT2472 and IEEE1482.1 standards for the Juridical Recording Unit (JRU) or EN62625-1:2013 A and B for crash protection.

Up to 2GB of NOR flash memory, 10/100 Mbit/s Ethernet link, Power over Ethernet, Simultaneous recording of multiple sources.

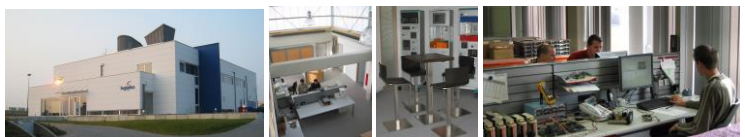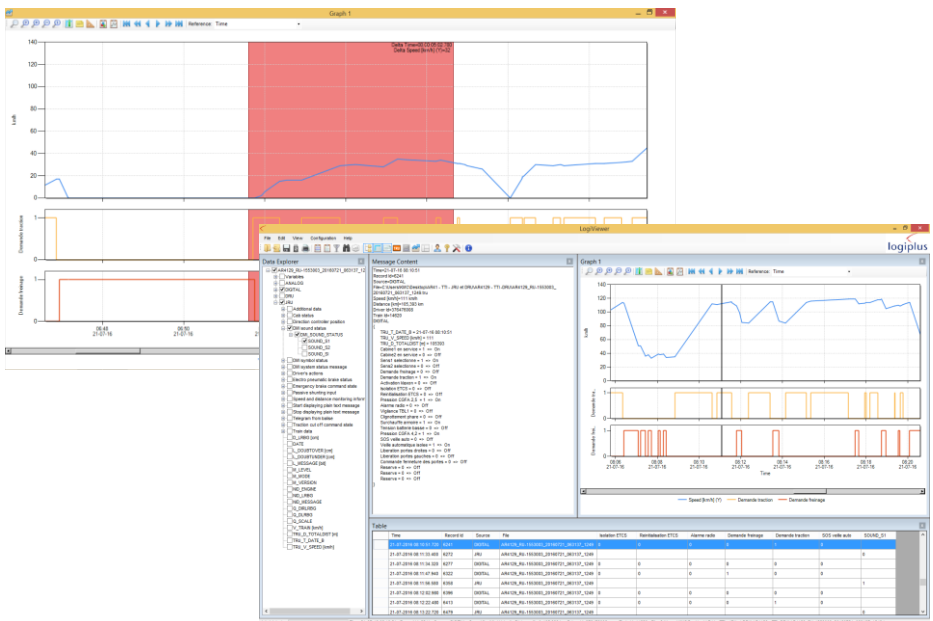Designed for stand-alone use in Ethernet-based trains.

ARR Recorder

The ARR (Automatische Rit Registratie) unit is a trainborne recording unit fully compliant with RnV-Normblad M-002 Version 3.0.
This standard is mandatory for trains operating with ATBNG or ATBL-NL.

LogiViewer

LogiViewer is the licence-free data analysis tool for our recorders. Last generation .NET development, fully flexible user-friendly multi-screen interface, display of data on graphs or tables, powerful filtering, search and sort functions, export to open-format.

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Mission-Tag Readers

Mission-Tag 'Badge' reader system for access control and driver identification.

The system is composed of a central unit and up to six base stations located near the train doors or in the dashboard.

Contacless RFID technology @ 125 kHz or 13,56 MHz. Ethernet connection, 2 GB SD-Card for black list and log book management. Voltage free contacts for door gate control,...

Now also compatible with DESFire badges to reinforce security!

Tone Generators

Railtone NG

Railtone NG is a fully static digital sound generator for train cabs and cars platforms. Twelve universal logic inputs are used to control the sounds generation. Automatic Sound Pressure Level adjustment. On-board reprogrammable by means of a USB Memory Stick.

An RS485/RS422 serial link, a CAN link and an Ethernet link allow the full remote control of the Railtone NG. Optional SD memory card.

Railtone NG is directly powered from the train battery. A Power Over Ethernet (PoE) version is also available.

Railtone Evolution

Railtone Evolution has three or six universal logic inputs used to control the sounds generation and a RS485/RS422 serial link. Automatic Sound Pressure Level adjustment. On-board reprogrammable by means of a USB Memory Stick.

Railtone Evolution is directly powered from the train battery.

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Speed Indicators

Safety Speed Indicators

A range of single- or double-needle speed indicators and Cab displays with galvanometers, servo-control motors or liquid crystals.

These indicators are designed to make access to more secure speed information by means of sophisticated back-reading devices. These specific requirements are especially imposed for train traffic on the SNCF network, which has incidentally sanctioned several of our indicators.

SIL2
Speed measurement Board

When installed in a SIL2 Safety Display, this board allows displaying the real speed issued from the ATESS system on the SNCF network.

Backup Speedometer

Displays train speed in MPH or KM/H when the ERTMS cubicle is isolated. 0-10V or 0-20mA input, adjustable end of scale. On-board reprogrammable by means of a USB Memory Stick.
Backup Speedometer is directly powered from the train battery.

GPS Clocks

GPS synchronised Clocks

GPS synchronised clock for accurate time display. Local time base with power back-up. Automatic setting for summer and winter time. Displays time and day of the week. Current loop link NF F-69010 and serial link RS485.

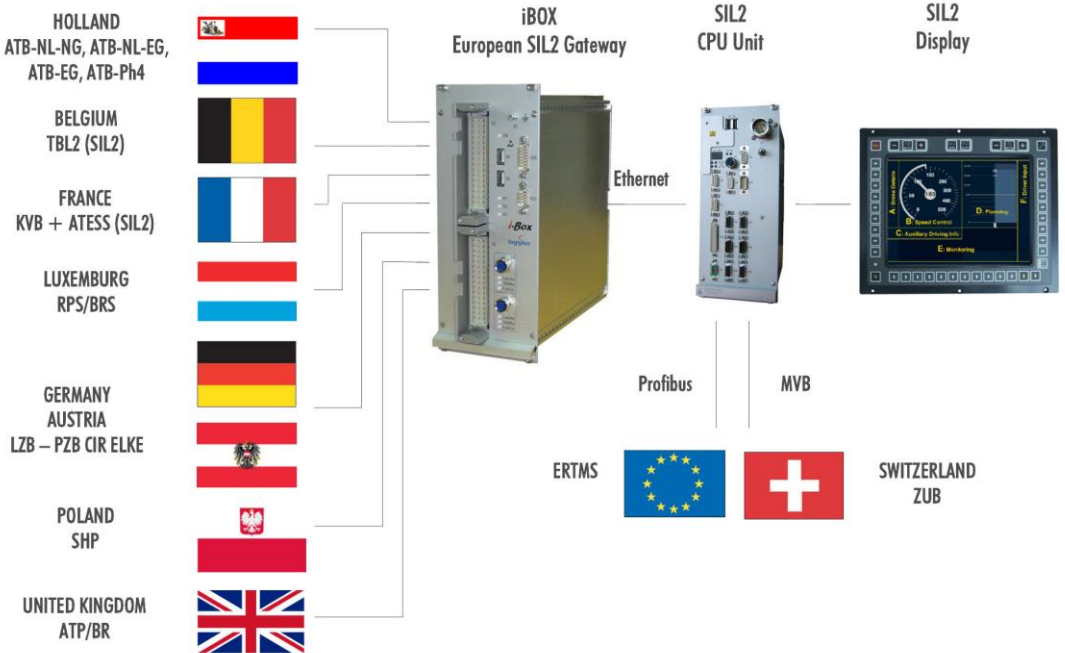logiplus

SIL2 Products

SIL2 Safety Displays

In partnership with Bachleitner&Heugel Elektronik, Logiplus offers a range of Driver-Machine interfaces specifically designed for the railway on-board environment.

Modular SIL0 or Patented SIL2 architecture with SIL2 at reduced additional cost.
Display of vital information such as speed, target-speed, air brake pressure, etc.

iBox
European SIL2 Gateway

iBox interfaces with most national Automatic Train Protection systems and ERTMS; it concentrates the driving information on a single SIL2 display or a SIL2 displays network.

HOLLAND ATB-NL-NG, ATB-NL-EG, ATB-EG, ATB-Ph4	
BELGIUM TBL2 (SIL2)	
FRANCE KVB + ATESS (SIL2)	
LUXEMBURG RPS/BRS	
GERMANY AUSTRIA LZB – PZB CIR ELKE	
POLAND SHP	
UNITED KINGDOM ATP/BR	

iBOX
European SIL2 Gateway

SIL2
CPU Unit

SIL2
Display

Ethernet

Profibus   MVB

ERTMS   SWITZERLAND
ZUB

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SIL2 PWM Controllers
Traction and brake control

A range of SIL2 or SIL0 PWM Traction/Brake controllers to set the speed of the train according to the traction/brake effort value imposed by the driver and regulate the train speed in cruise control mode.

Full control of the air brake.

Redundant equipment with 'coupling-decoupling' and 'car-wash' functions.

SIL2 Access on board
for Passengers in wheel-chair

The system automatically detects the platform height in the station and activates the right step for the access to the train.

For the "high level" platforms, the system authorizes the sliding of the upper step called 'gap filler' that fills the space between the platform and the train and allows access on board with a wheel-chair

Customer Specific Products

Specific products designed upon customer specification. Just consult us with your needs. Recent examples: Communication Bridge Serial to MVB for SNCF radio transmission, SIL2 System for the control of the Sanitary state of the train brakes.

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About Logiplus…

- Over 25 years of experience in design and production of Railways Electronics
- Over 50.000 products in service around the world
- Reliable and make-to-last products
- Proven SIL2 and Safety expertise
- ISO9001 certified for design, production and long-term maintenance
- Small and very skilled Team → higher reactivity!
- Integrated approach: from customer specifications to Long term maintenance
- Full traceability from part level to equipment level
- Very high quality standards: No low-cost sub-suppliers

Our location

LogiPlus is located 40 km south of Brussels, next to the Charleroi Brussels South Airport, in the heart of the Aéropole science and technology park, one of Wallonia's most important financial hubs, and one of Belgium's key assets.

Aéropole is a centre of excellence for Life Sciences, Information and Communication Technologies, Technology, Aviation and Services dedicated to companies.

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