

# datalogger.01

## for GSM-R Mobile Termination

The **data logger** is designed for raw data collection of the trace data from the fixed MT2 radio modules inside the RIU-ETCS 800. Additionally data input from GPS and balise information can be recorded optionally. The data will be stored in an internal memory and cyclically overwritten. The stored data can be read out via Ethernet connection. For each MT2 one data logger device has to be installed in the RIU-ETCS 800.

### Functions

- Recording of undecoded layer2/3 messages from MT2 radio modules ( trace
- Trace option on MT2 radio modules is additionally required ) via RS232 ( service interface )
- Cyclic memory 2 GB
- Data readout via front side ethernet interface
- Synchronisation interface (tbd.) to the second data logger module is prepared
- Internal clock

### Environmental Conditions

Protection class	IP20 according to EN 60529
Vibration and shocks	according to EN 50155
EMC	according to EN 50121-3-2 and EN 50155

### Climatic Conditions

Operating Temperature	-20 °C to 70 °C
Storage Temperature	-40 °C to 85 °C
Maximal Gradient1)	± 1 °C/min
Relative humidity	acc. to EN 50155

### Electrical Data

Input voltage	from RIU-ETCS Backplane
---------------	-------------------------

### Interfaces

5-pole M9 connector	5-pole M9 connector MT2 trace data (RS232)
5-pole M9 connector	GPS NMEA-0183 data (RS422)
5-pole M9 connector	tbd. Balise information (RS422)
4-pole M12 connector	Ethernet connector
Backplane connector	power supply

### Miscellaneous

Internal ARM based processor system	SW coded on Linux Operation System	2 GB internal data memory
-------------------------------------	------------------------------------	---------------------------

### Dimensions

Height	128.4 mm
Width	25,06 mm
Depth	169.93 mm

