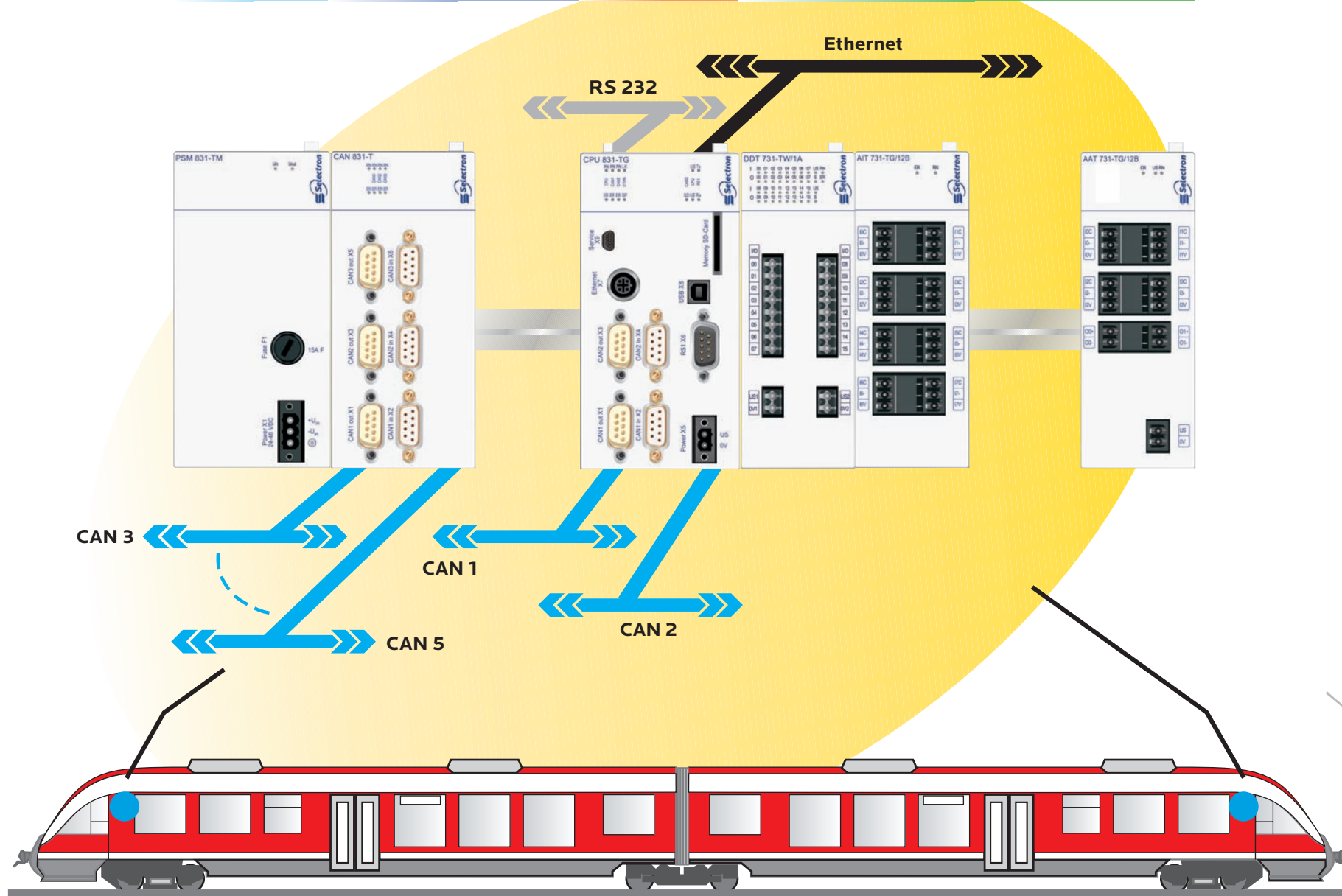


# Flexible Vehicle Control Unit with higher Performance and the most versatile Networking



# Vehicle Control Unit & diagnosis CPU The new controller family Selectron® MAS 83x-TG

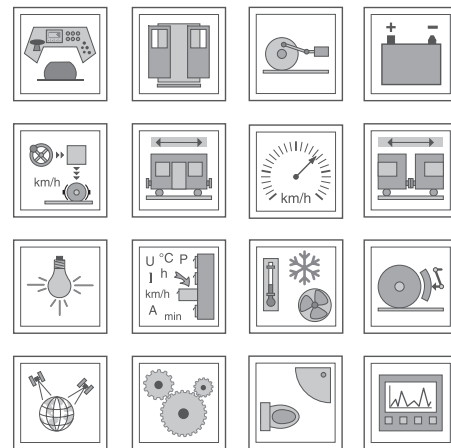
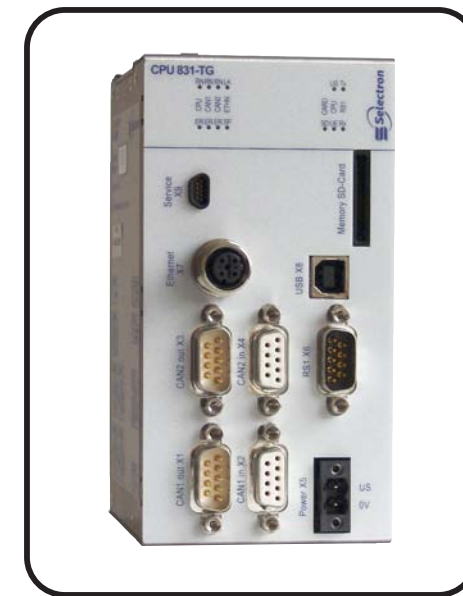


**"Flexible Train Control and Monitoring System TCMS with versatile performance"**

The **Selectron® MAS 83x-T** vehicle control and monitoring unit can be used either as a **standalone** unit with decentralized expansions that can be connected via the **CAN interfaces**, or as a device with **centralized I/Os and communication interfaces**

**The major functions are:**

- High CPU performance
- Faster expansion bus (C-bus) for max. 12 digital / analog expansion modules.  
A PSM 831-Tx power supply unit must be used if there are more than 3 expansion modules.
- Expansion bus with large bandwidth (L-bus) for communication modules
- Versatile networking options via
  - 2x CAN
  - Ethernet with M12 connection
  - RS 232 / RS 485 interface
- Memory expansion with 64 MB memory
- SD card for program download
- Communication expansion module CAN 831-T with 3 electrically isolated CANs
- Cover with lead seals to protect against operation by unqualified personnel
- Maintenance free
- Functions are compatible with previous controller CPU 854-T



**The Selectron® MAS multifunctional automation system in control applications for:**

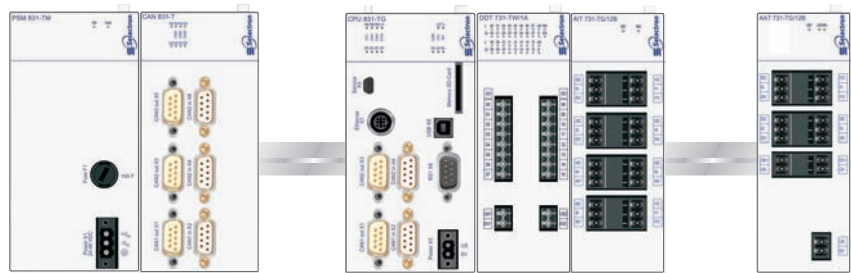
- Vehicle control units
- Inauguration
- Network technologies
- Outer and inner doors
- Wheel slide protection
- Vehicle diagnostic
- Motor- / gear unit
- Lavatory
- Lighting
- HVAC
- Fault messages
- Battery management
- Driver's cab
- Wireless communication

# Standards: All modules according to EN 50155

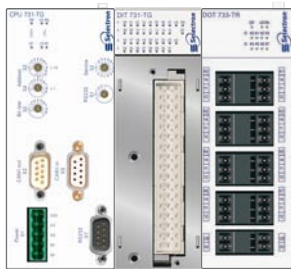
	<p><b>Ambient temperature</b>          Class T1: -25°C ... +55°C          Class T3: -25°C ... +70°C          Class Tx: -40°C ... +70°C</p>		<p><b>Relative humidity</b>          Annual average <math>\leq 75\%</math>          On 30 days in the year 95%</p>		<p><b>Long-term availability</b>          available for 20 years from marketing release, then repairable for another 10 years</p>
	<p><b>EMC</b>          EMC measures to EN 50 121-3-2</p>		<p><b>Vibration and Shock</b>          Installation in racks and housings, inside the vehicle or underframe          Values 0,3 kg ... 30 kg</p>		

## Selectron<sup>®</sup> MAS controller family for rail vehicles

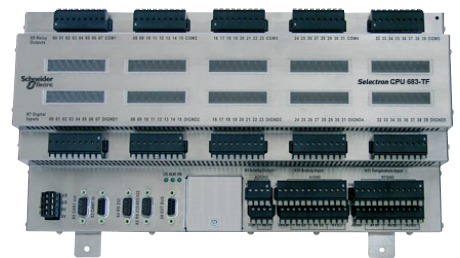
### Centralized controller, high performance



### Centralized or decentralized controller, medium performance



### Controller for subsystems



### Decentralized controller

