



Flexible Vehicle Control Unit with higher performance and the most versatile networking

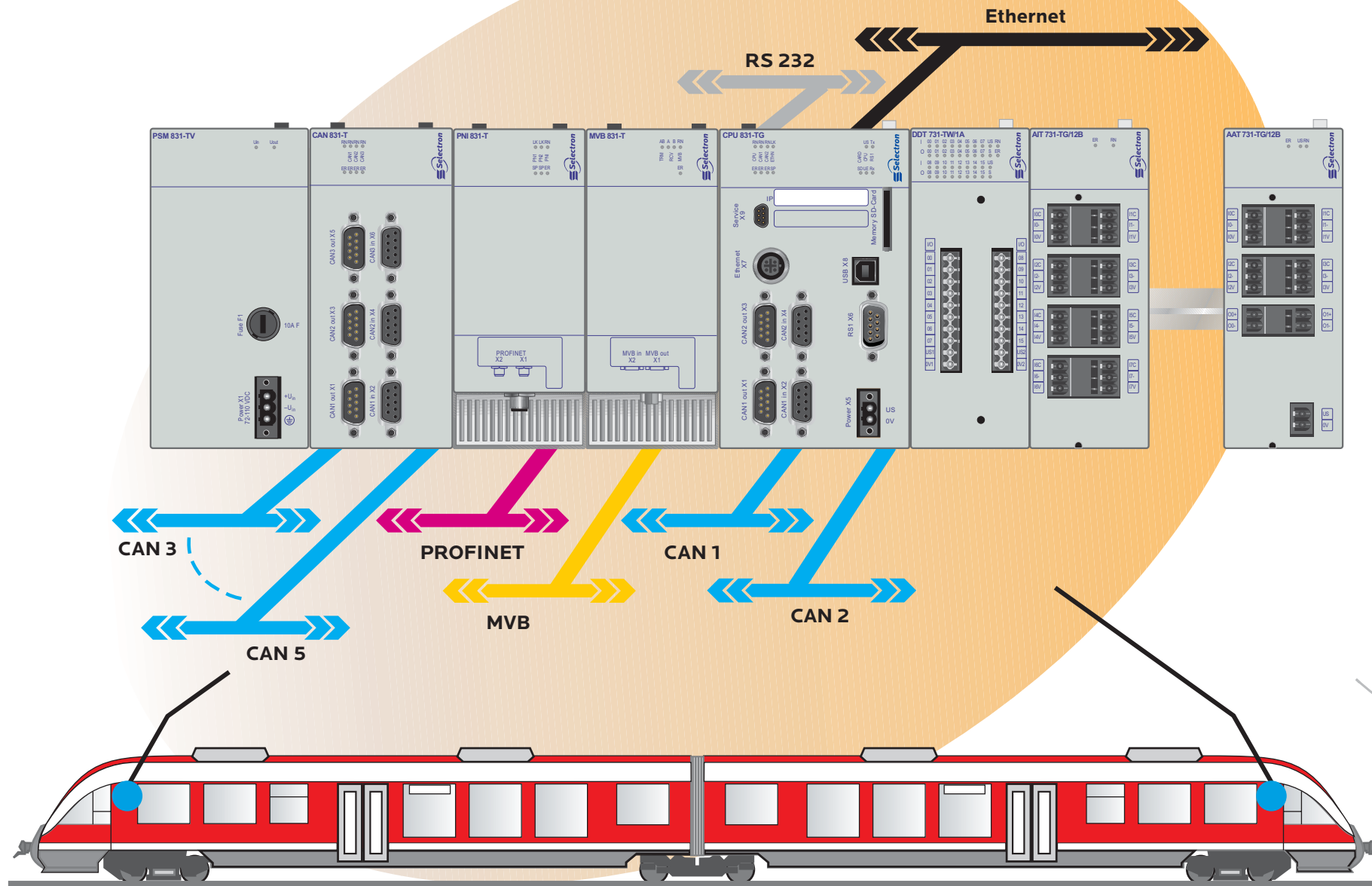




Vehicle Control Unit & diagnosis CPU

The new controller family Selectron® MAS 83x-TG

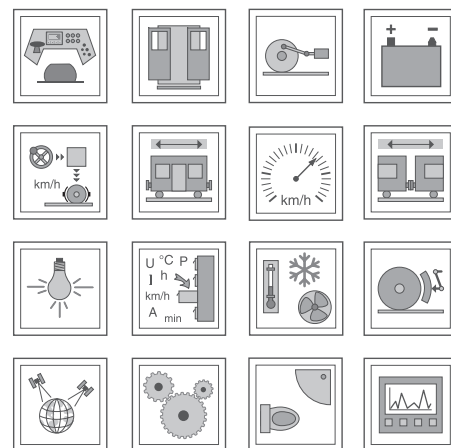
"Flexible Train Control and Monitoring System TCMS with versatile performance"



The **Selectron® MAS 83x-T** vehicle control unit can be used as a **standalone** unit with decentralized, via **CAN connected** extensions or with local **I/Os** and **communication interfaces** or mixed using both.

The major functions are:

- High-performance CPU
- Max. 12 digital / analog extension modules via the fast local bus (C-Bus).
A PSM 831-Tx power supply unit must be used if there are more than 3 extension modules.
- Communication modules MVB Master, PROFINET or further CAN via communication bus with large bandwidth (L-Bus)
- Versatile networking options via
 - Ethernet with M12 connection
 - 2x CAN
 - RS 232 / RS 485 interface
- Memory extension with up to 2 GB memory
- 32 Bit µProcessor
- SD card for program download
- Communication extension module CAN 831-T with 3 electrically isolated CANs
- Communication module PROFINET
- Communication module MVB Master (class 4)
- 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 and communication 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

	Ambient temperature Class Tx: -40°C ... +70°C		Relative humidity Annual average ≤ 75% On 30 days in the year 95%		Long-term availability Available for 20 years from marketing release, then repairable for another 10 years
	EMC EMC measures to EN 50 121-3-2		Vibration and Shock Installation in racks and housings, inside the vehicle or underframe values 0,3 kg ... 30 kg		Safe Accident risks are reduced EN 50126, EN 50128 EN 50129, IEC 61508

Consistent and User-Friendly System

