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Ingenuity for life

From A to B with mathematical precision

Highly versatile on-board computers

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Flexibility and performance combined

With the on-board computers, rail operators are provided with compact technical solutions for their railway vehicles. Over the last few years, the utilisation of several thousand products has led to the establishment of computers as a product in demand. Their various designs can be chosen according to what's needed for both new equipment and retrofitted vehicle fleets. Additional equipment adjustment is available upon individual request and leaves absolutely nothing to be desired. The flexible use of such equipment for individual applications is based on a LINUX operating system. In general, usage within temperature ranges that are typical for rail operations allows for its application in diverse operating conditions, whilst still fulfilling railway policy.

From data transmission to security surveillance

According to what exactly is required, the on-board computers can be equipped with either a flexible or standard configuration of equipment and combine a number of functions and application options. The use of data storage for CCTV application increases passenger security and the possibility to trace the origins of incidents that have occurred. The computers also act as a security gateway by separating different systems from each other. They serve as a communication channel between sub-systems and diagnosis systems. As a train server, they enable data transmission between train and line, as well as acting as an on-board router for online passenger communication.

Siemens MO; Dokument–ID: PM2 A6Z00044121661 000 A

Highly versatile on-board computers

Remote Data Access Computer (RDA)

- **Power supply:** 24V to 110V with < 12W power consumption
- **CPU:** Single-/Quad-Core ARM
- **RAM:** 1 GB / 2 GB
- **Memory:** SD
- **Tracking:** GPS
- **Interfaces:** RS232, RS485/422, MVB ESD + EMD, CAN bus (CAN), PC 104, Digital I/O, Analog I/O, Ethernet
- **Wireless:** GSM, UMTS, LTE E, LTE US, Wi-Fi
- **Slots:** 2 SIM card slots per modem
- **„Wake on ring" function:** Remote wake-up function (system, temperature) for faster initial start-up and remote diagnosis of inactive vehicles

Modular Communication Computer (M-Com)

- **Power supply:** 24V to 110V with < 12W power consumption
- **CPU:** Single-/Quad-Core ARM
- **RAM:** 1 GB / 2 GB
- **Memory:** Micro SD and SSD
- **Tracking:** Optional GPS
- **Interfaces:** RS232, RS485/422, MVB EMD, CAN bus (CAN), Ethernet
- **Wireless:** GSM, UMTS, LTE E, LTE US, Wi-Fi
- **Smart solution:** Standard interfaces as a basis, additional optional interfaces

This page contains a product overview for orientation purposes. Please refer to the respective data sheets for more information. Don't hesitate to get in touch.

Published by
Siemens Mobility GmbH
38126 Braunschweig
Germany
siemens.com/mobility