

## Vehicle Computer System Compact

### Ticket Sales

- Paper Ticket Sales
- Different Tariff Models possible
- Relation-based, zone-based ...
- Single Tickets, Subscriber Tickets
- Smart Card Sales, Add-Value, Inspection
- Barcode Tickets Sales and Inspection
- Cash and cash-less sales

### Shift accounts

- Intermediate account; Final shift account; Multi-user mode with individual shift accounts

### Smart Card Operation

- ISO 14443 type A/B smart card reader + NFC
- Secure Application Module ISO-001 Slots

### ITC / AVL Automatic Vehicle Location

- Recording of vehicle position for ticket sales and ticket inspection; line routing; vehicle circulation; for systems with and without planning data;
- Administration of RTPI (Real-Time Passenger Information) systems (vehicle, stationary, web...);
- Managing in-vehicle passenger information and announcement systems;
- Vehicle / driver communication and much more.

### Help functions / Modes of operation / Security functions

- Login with user names and password; Standby mode and high-speed reactivation; Data encryption; Repeated data storage; Transaction monitoring.
- Normal operation; Training operation (training print outs); Training plus (with short description); Administrator operation.
- Dialogue support; Context-referred assistance; Company-specific assistance texts; Announcement of date and time; Company-individual configuration.

### System

ARM iMX8 quad core industrial processor with real-time-clock; operating system Embedded Linux; memory SRAM 2 GB; internal storage 8 GB; µSD up to 64 GB.

Driver touch-screen TFT-display screen size 10 Inch, resolution 1280\*800 Pixel, durably glass surface, capacitive multi-touch, sunlight readable; brightness 500 cd/m<sup>2</sup>; internal audio 4W; external audio out and micro.

Full-graphic thermo-printer with Easy-Load-System; printing speed up to 200 mm/sec; paper width up to 58 mm; paper roll diameter up to 55mm; paper thickness up to 100g/m<sup>2</sup>; paper cutter; paper sensors.

Contact-less smart card reader with two SAM-slots.

Electrical Interfaces: Power 9-36 Volt, serial / USB, IP/Ethernet, vehicle memory.

Communication interfaces: Mobile communication 3G/4G option 5G; GPS.

Housing dimensions 260\*170\*110 mm (W/H/D); weight ~2,5 kg; operating environment -25°C to +70°C; water / dust protection IP54; paper slot IP33.

Options in combination with our validator / payment terminals ABT3000 or MV3000

Various public transport ticketing solutions with a wide range of smart cards or barcodes; closed or open loop systems, account-based ticketing, various open payment solutions with debit or credit cards; EMVco Level 1 / 2 certification (Mastercard, VISA, Amex, Discover, etc.); EMVco Level 3 certification; PCI-PTS POI V5.1; PAYG/MTT, online authorization, ready for Apple Pay™ & Google Pay™ and much more.

