EVENDpc3

PC-based Ticket Printer and On-Board Computer

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EVENDpc3 is the newest generation of the combined ticket printer and PC-based on-board computer, and equally contains full ITCS and ticketing functionality. With its more powerful processor, and a larger program and data memory, the device offers much more computing power, therefore allowing complex applications like navigation and text-to-speech and VoIP. It features a hybrid card reader that supports EMV credit card and bank card payments, as well as all current kinds of e-ticketing. This includes both Open Payment applications according to the EMV Transit Model and account-based systems.

The mounting plate is now available on request with a permanently installed memory card that securely stores all sales data in the vehicle and serves as a back-up for the sales data. If a device needs to be replaced, the backup sales data of the replaced device is immediately available in the system. The EVENDpc3 is compatible with its predecessors EVENDpc and EVENDpc2 and can run in mixed operation within one fleet.

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The Future of Mobility

A powerful all-in-one solution for vehicles

Handling of paper and barcode tickets, smart cards;

supports cashless payment

All conventional functions of an on-board computer

(positioning, schedule adherence, etc.)

Microsoft Windows 10 IoT Enterprise

Integrated modules for voice communication and announcements

text-to-spech

Manages data and voice radio

(e. g. VoIP)

VDV-KA certified, optionally: ITSO, EMV Level 1 & 2, Calypso

EVENDpc3

- Large 25.6 cm [10.1"] touch screen for the driver, separate display for passengers
- Integrated hybrid card reader for contactless cards and integrated 2D barcode reader
- Supports standardized interfaces and standards e.g. ITxPT, VDV301, IBIS-IP, VDV-KA, ITSO, Calypso
- Enhanced GPS positioning through map matching and usage of Multi-GNSS

Technical Data

Driver display	25.6 cm [10.1"] transmissive TFT color display; resolution: 1280 x 800 pixels; brightness up to 600 cd/m² with automatic brightness control; 1 – 100 % dimming range depending on ambient light; LED backlight; Projected Capacitive Touch (PCT) panel; single-layer scratch-resistant glass surface; operation with gloves possible
Passenger display	Transflective LCD display
Card reader	Proximity reader for contactless driver and customer smart cards (RFID); standards: ISO 14443a/b, optionally ISO 15693, MIFARE®, ITSO, EMV, VDV-KA, Calypso, optionally GiroGo, NFC (EMV credit card and mobile phone support); integrated ISO 7816 SAM reader with 4 slots; optionally: integrated card holder/reader for driver cards
Optional ticket barcode scanner	2D barcode scanner, standards: e.g. UIC918, Aztec, QR Code, PDF 417 Reads mobile phone displays and paper
Printer	High performance thermal printer; paper width up to 85 mm with printing surface up to 81.3 mm Paper weight: 80 to 120 g/m²; printing speed up to 200 mm/s Resolution 300 dpi (12 dots/mm); full graphic for logos; several fonts Easy-paper-loading; full and partial cut; optionally: paper tracking through 1D barcode scanner
System integration	Data provision by WLAN/Wi-Fi or mobile radio Connection via Ethernet/LAN when used for stationary ticket vending (pre-sale)
CPU	Intel Atom E3825; Dual Core; 1.33 GHz
Memory	2 – 4 GB DDR3-RAM; 16 GB – 64 GB SSD; optionally: additional µSD card
Operating system	Microsoft Windows 10 IoT Enterprise
Interfaces	7 x inputs (1 x galvanically isolated); 8 x outputs (1 x galvanically isolated); 1 x odometer input; 1 x ignition input; covered service interface; 2 x RS232, 1 x CAN (BUS-FMS/J1939); 1 x VDV 300 IBIS Wagenbus (master/slave); 1 x Fast Ethernet (100 Mbit/s); 1 x USB 2.0; 2 x audio line in or microphone in; 2 x audio line out; 1 x driver microphone audio
Optional interfaces	RS232; RS422; RS485; USB 2.0; CAN; J1708; Bluetooth (e. g. for VDV barcode mobile+)
Optional communication	Integrated WLAN 802.11a/b/g/n (up to 300 Mbit/s) Multi-GNSS GPS; Multi-GNSS GPS with Dead Reckoning; GSM; GPRS/EDGE; UMTS/3G; CDMA; LTE/4G; prepared for 5G Integrated driver speaker
Power supply	18 V to 36 V; typ. 16 W; 5 A during printing
Housing	Polystyrene, flame-retardant 250 mm [9.84"] x 219 mm [8.62"] x 235 mm [9.25"] (width x height x depth)
Weight	Approx. 4 kg [8.8 lbs]
Certifications	CE; ECE-R 10 (EMC, E1 approval); ECE-R 118 (flammability); VDV-KA; ITxPT

All information in this data sheet are to be perceived as proposals for configuration and don't necessarily belong to the basic scope of supply. The product is individually set up in accordance with customer requirements and corresponding commissioning.

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