cVEND box+ TOPP

Terminal for contactless payment & ticketing

- Robust housing for indoor and outdoor use
- EVA compatible dimensions
- Suitable for solar powered solutions
- Online ageverification
- Approved according to TA 7.2 and DC-POS 3.0 for girocard, credit / debit cards and mobile payments
- Approved by numerous German PSPs ("Netzbetreiber")

girocard · mastercard · VISA · AMERICAN EXPRESS · DISCOVER · JCB · UnionPay 银联 · Pay · G Pay

cVEND box+ is a fully approved terminal for contactless payment with girocard and debit and credit cards.

The robust housing with EVA CVS compliant dimensions enables easy installation in multiple indoor and outdoor applications.

The terminal, which has been approved by numerous network operators, provides an seamless integration thanks to its standardized ZVT and MDB cash register interface.

The low power consumption in standby mode allows the use in battery-powered vending machines.

Additional currencies and languages can be configured for operation outside Germany.

The terminal is suitable for various unattended contactless payment applications such as Vending, Parkting, EV-Charging or Transit.

Flexibly configurable MDB interface for a wide range of vending machine controllers.

Closed-loop cards (e.g. MIFARE, CIPURSE, ITSO, VDV-KA) can also be processed in parallel with credit and debit cards.

The terminal supports age verification with the german girocard (MSAM and online).

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Technical Data

Housing	Polycarbonate, UL94 V0
Dimensions (W x H x D))	
overall	110 mm x 142.5 mm x 40 mm (EVA CVS comp.)
visible	86 mm x 108 mm x 15 mm
Environmental conditions	
Operation	-30 °C to +70 °C
Storage	-30 °C to +80 °C
Humidity	5 % to 95 % condensing moisture resistant coating
Power Supply	
Voltage	12 to 42 V DC
Connector	MDB
Power Consumption	
Operation	Max. 8 W
Stand by	< 10 mW (Wake-up by digital input and time controlled)
User interface	6 LED (4 green, 1 red, 1 yellow) internal multi-frequency Buzzer, illuminated ContactlessLogo Graphical OLED display (yellow), 128 x 32 Pixel
Contactless Interface	ISO/IEC 14443-A / -B contactless payment cards, mobile devices in card emulation mode, MIFARE, ISO 15693 and other contactless cards
SAM Interface	4 x SAM Sockets
Memory expansion	microSD Socket (SDIO/SD, V 2.0)
Peripheral Interfaces	MDB-Slave, Ethernet, RS232 (V.24), USB 2.0 Device and Host
Online Connection	Ethernet, IP over USB
CPU & Security	Secure ARM 9 CPU, real time memory encryption, cryptographic hardware acceleration and a true random number generator Tamper-proof hardware, protection against side-channel attacks
Clock	Real Time Clock – Battery backed
Memory	
RAM	128 Mbyte
FLASH	256 Mbyte
Battery	3 V Lithium Battery, 540 mAh, Lifetime 15 years at 25 °C

Conformity to standards

Payment	PCI PTS 5.x, SRED TA 7.2, DC-POS 3.0 debit / credit
Contactless	EMVCo Contactless Level 1 CEN/TS 16794-1:2017 Class D
Supported Payment Schemes	girocard Contactless VISA Contactless (incl. V PAY) Mastercard Contactless (incl. Maestro) American Express Expresspay Discover D-PAS JCB Contactless UnionPay QuickPass
Environment	RoHS 2011/65/EU
Vibration / Shock	IEC 60068-2-6, IEC 60068-2-27, EN 50155, IEC 61373
Protection class	(front, installed correctly)
Impact protection	IK10
IP class	IP65
Electrical Approvals	CE, FCC, IC, BIS, UKCA EN ECE – R10 (Automotive in conjunction with related components) ISO 10605, Category 3

Terminalsoftware

Supported PSPs (alphabetical)	epay Lavego PAYONE SIX TeleCash VR Payment
ECR Interfaces	ZVT cash register interface via LAN (optional SSL / TLS encryption), USB or RS232 MDB interface
Features	ZVT-H host protocol Multi-Currency and Multi-Language support Failsafe application and OP-System Update Age verification (girocard and gastrocard [ZIGGI]