

cVEND compact LTE TOPP

Compact retrofit solution

- Integrated LTE modem and antenna
- Low-power sleep mode for solar-powered machines
- Proximity sensor for reliable wake-up
- MDB cash register interface
- Digital inputs / outputs for coin validator emulation
- Online ageverification
- Approved according to German TA 7.2 and DC-POS 3.0 for girocard, credit / debit cards and mobile payment



cVEND compact is based entirely on the proven cVEND plug platform for contactless payment with girocard and debit and credit cards.

With its compact and robust housing, many machines can be retrofitted indoors and outdoors.

Its design and diverse interface enable a wide variety of applications in vending, parking, EV charging, even where no payment terminal could previously be installed.

Low-power standby mode for solar-powered applications and optimized MDB processes, including age verification (german girocard only), particularly suitable for cigarette vending machines.

Optional contact card reader interface for age verification with the german girocard.

Integrated fixed price system & configurable digital inputs / outputs including emulation of coin validators.

In addition to the MDB interface, the ZVT cash register interface enables easy integration into various applications.

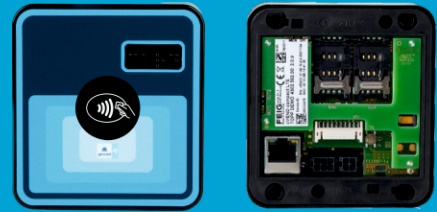
Multi-currencies and languages for cross-border applications.

Flexible support of closed-loop cards via ZVT cash register protocol or independent transparent application.

Approved by numerous German network operators for the acceptance of contactless debit and credit cards.

cVEND compact LTE

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Technical Data

Housing	Polycarbonate, partially transparent, UL94 V0
Dimensions (W x H x D)	
Overall	86 mm x 94 mm x 33 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	8 - 42 V DC
Power Connector	MDB (with optional adapter cable)
Power Consumption	
Operation	typ. < 12 W Peak max. 24 W
Standby	< 3 mA at 12 V (with modem logged in)
Wake-up	Proximity sensor, MDB or time controlled
User interface	6 LED (4 green, 1 red, 1 yellow) internal multi-frequency Buzzer, illuminated Contactless Logo
Contactless Interface	ISO/IEC 14443-A / -B contactless payment cards, mobile NFC devices in card emulation mode, MIFARE, ISO 15693 and other contactless cards
SAM Interface	1 x SAM Socket MSAM 1 x SIM socket ID000 format for mobile SIM card
Peripheral Interfaces	MDB Slave, Ethernet, RS232 (V.24), USB 2.0 Device, external card reader
Digital I/Os	2 x digital output (short circuit protected, open collector), Configurable functions: static output, coin acceptor emulation 2 x digital inputs with configurable functions
Online Connection	Integrated LTE modem (2G 4G), integrated LTE antenna and connector for optional external antenna, 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, not removable.
Lifetime 15 years at 25 °C

Conformity to standards

Payment	PCI PTS 5.x, SRED TA 7.2 Addendum 5, DC-POS 3.0 debit / credit
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Contactless	EMVCo Contactless Level 1 CEN/TS 16794-1:2017 Class D
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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
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Protection class	(front, installed correctly)
Impact protection	IK10
IP class	IP65

Electrical Approvals	CE, UKCA ISO 10605, Category 3
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Terminalsoftware

Approved German PSPs „Netzbetreiber“ (sorted alphabetically)	epay, Lavego, PAYONE, SIX, Telecash, VR Payment
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CR Interfaces	ZVT cash register interface via LAN (optional SSL / TLS encryption), USB or RS232 MDB and Fixed amount / coin acceptor emulation
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Features	ZVT-H Host-Protocol Multi-Currency and Multi-Language support Failsafe application and OP-System Update Age verification (girocard and gastrocard [ZIGGI]) Transfer of ERP data to hostsystem
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