

cVEND box+ NMI

## Terminal for contactless payment & ticketing

- Robust housing for indoor and outdoor use
- EVA compatible dimensions
- Easy vending machine / cash register integration
- Suitable for solar powered solutions
- Provides payment transaction processing with various acquirers via the NMI payment gateway
- Easy integration due to compatible ECR interfaces with other international cVEND solutions provided by FEIG



cVEND box+ is a fully approved terminal for contactless payment with credit and debit 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 NMI payment gateway, provides a 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.

The terminal is suitable for various unattended contactless payment applications such as Vending, Parking, 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.

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## Technical Data

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

**Battery** 3 V Lithium Battery, 540 mAh,  
Lifetime 15 years at 25 °C

## Conformity to standards

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

## Terminalsoftware

<b>Supported PSP</b>	NMI
<b>ECR Interfaces</b>	ZVT cash register interface via LAN (optional SSL / TLS encryption), USB or RS232 MDB interface
<b>Features</b>	NMI host protocol Multi-Currency and Multi-Language support Failsafe application and OP-System Update