cVEND plug NMI

Terminal module for contactless payment & ticketing

- Flush integration into many applications in transportation, parking, vending, EV charging
- Suitable for solar powered solutions due to it's low power consumption during sleep mode
- Easy vending machine / cash register integration
- Approved by NMI payment gateway
- 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 plug is a fully approved terminal for contactless payment with debit and credit cards.

cVEND plug is designed for flush integration in any kind of non-conducting front plates like ticket validators, driver consoles, kiosk-systems and many others.

The terminal, which has been approved by NMI payment gateway, provides an seamless integration thanks to its standardized ZVT and optional 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.

cVEND plug is designed and tested ready for use in vehicles.

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

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

cVEND plug is optionally available with extension boards and housings for many applications:

Vending Extension Board
MDB interface, digital I/Os
Fixed amount system and coin acceptor emulation
Age verification („girocard" only)

SAM Extension Board
4 SAM sockets
MicroSD Slot

Module housing
Housing with low installation height for partially recessed mounting in plastic or glass fronts respectively Housing for surface mounting also on any kind of surfaces.

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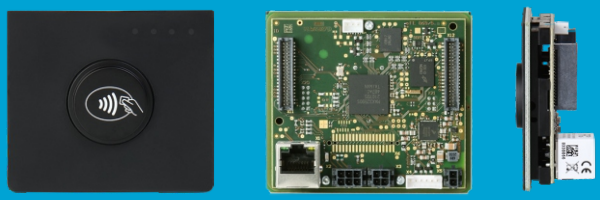

Technical Data

Housing	Electronics module with plastics front element UL94 V0
Dimensions (W x H x D))	
overall	79 mm x 70 mm x 31,1 mm
visible	Ø 28,5 mm
Environmental conditions	
Operation	-30 °C to +70 °C
Storage	-30 °C to +80 °C
Humidity	5 % to 95 % not condensing
Power Supply	
Voltage	5.0 to 5.5 V DC
Power Consumption	
Operation	< 1 A, peripherals excluded
Standby	< 1 mA (Wake-up by digital input and 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 devices in card emulation mode, MIFARE, ISO 15693 and other contactless cards
SAM Interface	4 x SAM Sockets available with optional SAM Extension Board
Memory expansion	microSD Socket (SDIO / SD, V 2.0) with optional SAM Extension Board
Peripheral Interfaces	Ethernet, RS232 (V.24), RS232-LVTTL, USB 2.0 Device, MDB (with optional Extension Board)
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
Contactless	EMVCo Contactless Level 1 CEN/TS 16794-1:2017 Class D
Supported Payment Schemes	Mastercard contactless VISA contactless Amex Discover
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, UKCA EN ECE – R10 (Automotive in conjunction with related components) ISO 10605, Category 3

Terminalsoftware

Supported PSP	NMI
Features	NMI Host-Protocol ZVT cash register interface via LAN (optional SSL / TLS encryption), USB or RS232 Multi-Currency and Multi-Language support Failsafe application and OP-System Update MDB and Fixed amount / coin acceptor emulation with optional Extension Board

FEIG ELECTRONIC GmbH
35781 Weilburg | info@feig.de | www.feig.de