FEIG

cVEND plug PayServ.GWS

Terminal module for contactless payment & ticketing

- **International multi acquirer payment acceptence via the FEIG PayServ.Gateway Solution**
- 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
- 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 numerous payment service provider, provides 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.

For international use Multiple 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)

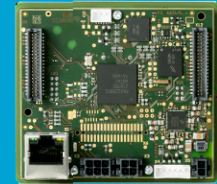**SAM Extension Board**
    4 SAM sockets
    MicroSD Slot

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.

cVEND plug PayServ.GWS
Terminal module for contactless payment & ticketing

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	VISA Contactless (incl. V PAY) Mastercard Contactless (incl. Maestro) American Express Expresspay
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	FEIG PayServ.GWS
ECR Interfaces	ZVT cash register interface via LAN (optional SSL / TLS encryption), USB or RS232 MDB and Fixed amount / coin acceptor emulation with optional Extension Board
Features	FEIG PayServ.GWS Host-Protocol Multi-Currency and Multi-Language support Failsafe application and OP-System Update