

cVEND compact II - Platform for App Development

COMPACT CONTACTLESS RETROFIT SOLUTION

- Integrated LTE modem, LTE antenna and MDB interface
- Low-power sleep mode for solar-powered machines with wake by card
- Multi-Application architecture enables independent acceptance of contactless open-loop banking cards and closed-loop tickets
- Flexible secure Linux platform to develop own application
- PCI PTS 6.x and EMVCo L1 3.1a certified payment



cVEND compact II is the powerful PCI PTS 6.x certified next generation and backwards compatible successor of the cVEND compact LTE first generation, which has been used successfully in thousands of indoor and outdoor projects.

cVEND compact II is a future-proof solution for open-loop and closed-loop projects in vending, parking and many other applications.

With its compact and robust housing and the integrated LTE modem and the MDB interface many indoor and outdoor machines can be retrofitted.

cVEND compact II is based entirely on the proven cVEND plug II platform and fully approved for open-loop payment by EMVCo and PCI PTS.

Due to the low power consumption and a special low-power standby mode, it is also ideal for battery or solar-powered applications. Wake-up from standby can be performed via card detection, time-controlled or via a digital input.

The cVEND.OS Multi-Application architecture supports open loop payment cards and mobile wallets as well as closed-loop cards like MIFARE, CIPURSE, ITSO, VDV-KA, or Calypso with the same priority.

Due to the secure infrastructure provided by FEIG and its security architecture with crypto plug-ins for symmetric and asymmetric encryption, key derivation and remote key loading, cVEND compact II is suitable for PCI P2PE solutions.

Depending on your needs cVEND compact II can be supplied in different software configurations:

cVEND compact II.L2

With the L2 version, FEIG provides a terminal that is fully configured to customer requirements. This includes loading customer applications and keys in our PCI P2PE-certified key injection facility.

cVEND compact II - generic

With the generic version, system integrators can load their applications and keys onto the terminal themselves or use FEIG's PCI P2PE-certified services for remote loading of applications and keys.

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Compact contactless retrofit solution for machines

Technical Data

Housing	Polycarbonate, semi 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-repellant coating
Power Supply	
Voltage	8 - 42 V DC
Power Consumption	
Operation	typ. < 12 W Peak max. 24 W
Standby	36 mW (with modem logged in)
Wake-up	digital input, timer, card detection
User Interface	6 LED (4 green, 1 red, 1 yellow) internal multi-frequency buzzer, illuminated contactless logo
Contactless Interface	ISO/IEC 14443-A /-B ISO/IEC 15693 Support of contactless payment cards, mobile NFC devices in card emulation mode, MIFARE, Calypso, Sony FeliCa and other
SAM Interface	1 x SAM Socket ID000 format
Peripheral Interfaces	LTE Modem, MDB Slave, Ethernet, RS232 (V.24), USB 2.0 OTG
Online Connection	Integrated LTE modem (2G 4G), integrated LTE antenna, Ethernet, IP over USB
Digital I/Os	2 x digital output (short circuit protected, open collector), Configurable functions 2 x digital inputs with configurable functions
CPU & Security	Secure ARM Cortex-A7 CPU up to 1 GHz with real time memory encryption, cryptographic hardware acceleration, true random number generator, tamper-proof hardware
Memory	RAM 512 Mbyte, FLASH 1 GByte
Operating System	Linux based cVEND.OS
Clock	Real Time Clock - Battery backed
Battery	3 V Lithium Battery, 550 mAh, Lifetime 15 years at 25 °C

Standard Conformity

Payment Security	PCI PTS 6.x SRED
Contactless	EMVCo Contactless Level 1 - V3.1a
Available Level 2	Mastercard contactless V3.1.4,
Payment Kernel	VISA contactless V2.2. incl. transit V1.1, American Express - Expresspay 4.2, Discover D-PAS 2.0, JCB contactless 1.6, UnionPay contactless 2018 transit and overseas RuPay - qSPARC 2.0.1 PURE 2.1.8 e.g. for mada, Bancomat mobile, Bancomat contactless 2.2.0, CPACE 1.1 e.g. for Bancontact & Cartes Bancaires Interac eftpos (on request)
Environment	RoHS 2011/65/EU
Vibration/Shock	IEC 60068-2-6, IEC 60068-2-27
Protection class	(front, installed correctly)
Impact protection	IK10
IP class	IP65
Electrical Approvals	CE, ISO 10605, Category 3

Product Versions

Software Configurations

L2-Custom	Configuration with customer App and Key loading in secure FEIG production facility
Generic	Secure device designed for local or remote application and key loading

Accessories

Software Development	SDK, Development devices, Tools and related services
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