

cVEND box+ II - Solutions with payment app from FEIG

TERMINAL FOR CONTACTLESS PAYMENT & TICKETING

- Tailored for parking, vending, EV-charging applications and transit
- Low-power sleep mode for solar-powered machines with wake up through card detection
- Robust housing for smart installation in public areas
- PCI PTS 6.x
- Choice between German payment service providers and the international solution FEIG PayServ.GatewaySolution



VISA



Apple Pay

G Pay

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

The robust housing with EVA CVS-compliant dimensions, MDB interface and 4 SAM sockets make cVEND box+ II ideal for vending machines, parking garages and public transportation.

cVEND box+ II is designed for various unattended contactless only applications like Vending, Parking, EV-Charging and Transit. Due to the low power consumption and a special low-power standby mode, the device is ideal for battery or solar-powered applications.

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

The cVEND.OS Multi-Application architecture supports open loop payment cards and mobile wallets as well as closed-loop cards like MIFARE, CIPURSE, ITS0, VDV-KA, or Calypso with the same priority.

The available cVEND box+ II variants cover applications for Germany (DK) and international use (PayServ.GWS). cVEND - alpha offers particular flexibility, as the decision on a payment service provider does not have to be made until shortly before commissioning.

cVEND box+ II - alpha

Alpha is the version offering maximum flexibility for choosing a payment service provider. cVEND - alpha offers all the functions needed for testing and setting up the terminal. The final payment app can be conveniently downloaded remotely via our PayServ.SolutionSuite.

cVEND box+ II.DK (Deutsche Netzbetreiber)

Versions with payment app installed for a German payment service provider. You can choose from numerous German payment service providers that support cVEND terminals.

cVEND box+ II - PayServ.GWS

The variant for international use with FEIG's acquirer-independent payment service - PayServ.GatewaySolution.

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Terminal for contactless payment & ticketing

Technical Data

Housing	Polycarbonate, semi transparent, UL94 V0
Dimensions (W x H x D)	
Overall	110 mm x 142.5 mm x 40 mm (EVA CVS comp.)
Visible	86 mm x 108 mm x 15 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	12 to 42 V DC
Connector	MDB
Power Consumption	
Operation	Max. 8 W
Standby	< 10 mW
Wake-up	digital input, timer, card detection
User Interface	6 LED (4 green, 1 red, 1 yellow) internal multi-frequency buzzer, illuminated contactless logo Graphical OLED display (yellow), 128 x 32 Pixel
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	4 x SAM sockets ID000 format, EMVCo L1 compliant, voltage class A, B, C T=0 and T=1 protocol, 1 x microSD card (SDIO / SD, V 2.0) socket
Memory Expansion	microSD socket (SDIO/SD, V 2.0)
Peripheral Interfaces	MDB-Slave, Ethernet, RS232 (V.24), USB 2.0 OTG, USB Host
Online Connection	Ethernet, IP over USB
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, Common.SECC
Contactless	EMVCo Contactless Level 1 - V3.1a ISO/IEC TS 24192 (STA 3.1)
Environment	RoHS 2011/65/EU
Vibration / Shock	IEC 60068-2-6, IEC 60068-2-27, EN 50155, IEC 61373
Protection class	
Impact	IK 10
IP class	IP 65 (front side)
Electrical Approvals	CE, FCC, IC EN ECE - R10, ISO 10605 Category 3

Terminalsoftware

Cash register interfaces	ZVT Cash register interface via LAN (SSL / TLS encryption), USB or RS232 MDB Cash register interface
Functions	Configurable languages and currencies, fail-safe update

cVEND box+ II - alpha

Specific functions	Remote loading of a productive app for a payment service provider via PayServ.SolutionSuite
Supported payment systems	In accordance with the selected payment service provider's offering

cVEND box+ II.DK

Specific functions	Age verification (girocard only)
Approvals	TA 7.2, DC-POS 3.0 debit / credit
Supported payment systems	girocard, VISA, Mastercard, American Express, Discover, JCB, UnionPay
Supported payment providers	epay, Lavego, PAYONE, TeleCash, VR Payment,

cVEND box II+ - PayServ.GWS

Supported payment systems	VISA, Mastercard, American Express
Payment service provider	FEIG