

cVEND touch S - Platform for App Development

CONTACTLESS PAYMENT AND PIN ENTRY ON GLASS

- Intuitive user interface for barrier-free PIN entry and contactless payment
- Highest level of vandalism protection IK10
- Compatible installation for cVEND PIN
- Flexible secure Linux platform to develop own applications
- PCI PTS 6.x certified



cVEND touch S uniquely combines clear design and contactless chip & PIN payment at charging stations, parking ticket machines, stationary and mobile ticket machines, and vending machines.

Its mechanical design allows a quick and easy installation in any machine front. Mechanical compatibility with cVEND PIN provides smooth integration and flexibility when choosing between cVEND touch S and cVEND PIN – depending on your needs.

A robust and bright color display and the seamless front pane enable outdoor use in public areas and offer optimal user guidance. cVEND touch makes Tap & Go with optional PIN entry fast and easy. Barrier-free operation is guaranteed.

The low power consumption in standby mode also allows use in battery-powered machines.

cVEND touch is another member of the proven cVEND terminal family. 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.

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 touch S is suitable for PCI P2PE solutions.

Depending on your needs cVEND touch S can be supplied in different software configurations:

cVEND touch S.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 touch S - 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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Contactless payment and PIN entry on glass

Technical Data

Housing	Laminated safety glass (LSG) with integrated display and terminal electronics, Plastic flange
Dimensions (W x H x D)	
Total	93 mm x 144 mm x 48,6 mm
Visible	82 mm x 120 mm x 14 mm
Environmental conditions	
Operation	-30 °C to +70 °C
Storage	-30 °C to +80 °C
Air humidity	5 % to 95 % condensing Moisture-repellant coating
Power supply	10 to 30 V DC, Connection via MDB
Power consumption	
Operation	typ. < 15 W
Standby	< 10 mW,
Wake-up	digital input, card detection, timer
User interface	2,4" TFT color display 850 cd/m ² , 320 x 240 Pixel, 4 green LED, internal multi-frequency buzzer , audio output, sensor for brightness control
Scanner	QR-Code, DataMatrix, Aztec
Keyboard	Illuminated capacitive keypad with 16 keys, audio user guidance for barrier-free operation
Contactless interface	ISO/IEC 14443-A / -B Contactless debit and credit cards, mobile NFC devices in card emulation mode, MIFARE, ISO 15693, and other contactless cards
SAM Interface	2 x SAM socket
Interfaces	2 x Ethernet 10/100 Mbps, 1 x MDB (Slave), 2 x RS232 (V.24), 1 x USB 2.0 OTG
Online connection	Ethernet, IP over USB, optional LTE Modem
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, 1000 mAh, lifetime 15 years at 25 °C

Standard Conformity

Payment Security	PCI PTS 6.x
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 2.1 JCB contactless 1.6 UnionPay contactless 2021 overseas PURE 2.1.8 e.g. for mada & Bancomat mobile CPACE 1.1 e.g. for Bancontact & Cartes Bancaires
Environment	RoHS 2011/65/EU
Vibration / Shock	IEC 60068-2-6, IEC 60068-2-27
Railway	EN 50155, EN 45545, EN 61373
Protection Class	(Front side, assuming correct installation)
Vandalism	up to IK10
IP class	IP65
Electrical Approvals	CE, FCC, IC

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

Optional Accessories

Software Development	SDK, Development devices, Tools and related services
Hardware	LTE Modem Extension Board