



**Hemisphere West Europe**  
PAYMENT SPECIALISTS

# FEIG



**FEIG Electronic**

**cVEND**

## **OEM Terminal for Contactless Payment**

Designed for contactless open loop credit cards & closed loop public transport tickets

Flush integration into validators, on-board computers and other devices

Flexible secure Linux platform to develop own applications

Low power standby mode for solar powered solutions

PCI 5.1 and EMVCo approved

**Distributed by:**



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## Technical Specifications

<b>Dimensions</b>	79 mm x 70 mm x 37 mm (WxHxD)
<b>Housing</b>	None, plastics front element with back-lit contactless symbol
<b>Protection Class (Front Side)</b>	IP 65
<b>Impact Protection Class</b>	IK 10 (installed in equivalent robust housing)
<b>Vibration/Shock Proved</b>	IUC 60068-2-6 / IEC 60068-2-27 class 5M3
<b>Temperature Range</b>	Operation: -30°C up to +70°C Storage: -30°C up to +80°C Humidity: 5% to 95% (non-condensing)
<b>Supply Voltage</b>	5 V DC
<b>Power Consumption</b>	typ. < 1 A, peripherals excluded
<b>Low Power Standby Mode</b>	Full Operation ≤ 2 secs after wake-up Power Consumption < 1 mA Wake-up by digital input or time controlled
<b>Contactless Interface</b>	ISO/IEC 14443-A/-B in EMVCo mode JIS X 6319-4 (Sony Felica) Hardware enabled for NFC IP1 (P2P), NFC card emulation 106 kBit/s to 847 kBit/s supported
<b>Supported Transponders</b>	ISO/IEC 14443-4 compliant smart cards, NFC devices in card emulation mode (Tag Type 1, 2, 3, 4), mifare classic, mifare ultralight, mifare ultralight C, mifare DESFire family
<b>Peripheral Interface</b>	Ethernet, RS232 (V.24), RS232-LVTTL, USB 2.0 Host and Device, SPI, I <sup>2</sup> C, optional RGB-bus interface for external TFT displays
<b>User Interface</b>	6 LEDs (4 green, 1 yellow, 1 red); illuminated contactless payment logo; multiple frequency buzzer
<b>CPU and Security</b>	Secure ARM 9 CPU with true random number generator and cryptographic hardware acceleration - RAM 128 MByte (256 Mbyte optional) - FLASH 256 MByte (512 Mbyte optional) - Real time clock - battery backed
<b>Operating System</b>	Secure LINUX with cVEND Multi-Application architecture Fail-safe update for OP-System and Application Crypto Plug-Ins to protect sensitive data Remote key loading
<b>Payment Certification</b>	PCI PTS 5.1, SRED incl. Open protocol; EMVCo Contactless Level 1, Version 2.6b
<b>Certified Level 2 Kernels</b>	American Express, Discover, MasterCard, VISA, RuPay qSPARC 2.0
<b>Automotive Compliance</b>	UN ECE – R10
<b>Radio Approval</b>	EN 300 330; FCC 47 CFR Part 15; IC RSS-Gen, RSS-210
<b>EMC; Safety &amp; Health</b>	EN 301 489; EN 60950; EN 50364
<b>Hazardous Substances</b>	RoHS – 2011/65/EC

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