





## **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

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### **Technical Specifications**

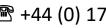
**Dimensions** 79 mm x 70 mm x 37 mm (WxHxD) None, plastics front element with back-lit contactless symbol Housing **Protection Class (Front Side)** IP 65 **Impact Protection Class** IK 10 (installed in equivalent robust housing) Vibration/Shock Proved IUC 60068-2-6 / IEC 60068-2-27 class 5M3 Operation: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

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