IDCRAFT

RFID & NFC EXPERTS

HF | LF - Reader Module
HID - OMNIKEY® 5127CK

- Supports ISO 14443 A/B, ISO 15693 & ISO 18092 NFC
- Dual-frequency HF/LF with Seos®, iCLASS®, MIFARE® & HID Prox®
- NFC & Bluetooth support for mobile credentials
- Ultra-compact board design for tight-space integrations
- Industrial housing option for rugged environments

HF | LF - Reader Module
Dual Interface Reader

The 5127CK-Mini reader board complements the 5427CK reader by providing a very compact design for installation in space-constrained solutions. The CCID interface enables integrators to design finished readers without the need to install or maintain drivers, eliminating complex software lifecycle management issues in the field and accelerating introduction of finished devices in the market.

With the Keyboard Wedge functionality, the reader can retrieve data from a card that is presented to the reader and directly input the card data into an application using keystroke emulation. This eliminates the need for customers to manually enter the card data into an application. The OMNIKEY 5127CK-Mini reader board offers the market-proven OMNIKEY reader feature set and supports low and high frequency technology within a single device. It also supports the latest mobile access solutions via NFC or Bluetooth Smart.

Key features of the OMNIKEY 5127CK-Mini reader board include support for the most common low and high frequency card technologies, including Seos®, iCLASS, MIFARE Classic, MIFARE DESFire EV1/EV2 and HID Prox. It also includes an integrated management tool that enables field updates to readers for new firmware or changing configuration settings. For quick and easy integration, HID Global provides an OMNIKEY 5127CK reader board Developer Tool Kit (DTK).The DTK provides the necessary tools, documentation and developer resources material to shorten integration cycles and speed time to market with finished products.

Common Applications

- Industrial & medical equipment integration
- Secure workstation & application logon
- Enterprise & government authentication
- Kiosk, vending & ticketing systems
- IoT devices & smart connected products
- Mobile-enabled access workflows

www.idcraft.com sales@idcraft.com +49.6236.4494.685

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OMNIKEY® 5127CK
HF | LF - Reader Module

TECHNICAL SPECIFICATIONS

Physical Characteristics

Dimensions	Reader Board: 50 x 35 x 8.94mm Industrial Housing: 55 x 40 x 16mm
Weight	Reader Board: 10.5g Industrial Housing: 24.4g
Power Supply	Bus powered
Current Requirements	Base Power consumption (RF interface deactivated) - Average 60mA; HF, Prox, amd BLE activated - Average 134mA, Peak 220mA; HF polling only - Average 84mA, Peak 160mA; Prox polling only - Average 73mA, Peak 130mA; BLE advertisement only - Average 60mA, Peak 75mA
Operating Temperature	-20° to 70° C
Operating Humidity	10 - 90% Relative Humidity
Storage Temperature	-20° to 80° C

Contactless Smart Card Interface

Protocols and Cards HF*	iCLASS, iCLASS SE/SR, iCLASS Seos, MIFARE Classic, MIFARE DESFire 0.6, MIFARE DESFire EV1/ EV2, MIFARE Ultralight C, MIFARE Ultralight, FeliCa (Idm) CEPAS (CAN), ISO 14443A/B, ISO15693, Support for ISO18092 NFC Tag type 1, 2, 3, 4, 5, T=CL, SmartMx, Student ID in Apple Wallet
Protocols and Card LF*	HID Prox, Indala Prox, EM Prox, EM4100/4102/4200/4305/4450, AWID Prox, Hitag 1.2.3, ASK, PSK, FSK

Bluetooth Interface

Supported Functions	HID Global Mobile Access Service HID Global Mobile Access Service using NFC (Android Only)

Host Interface

USB Interface	USB 2.0 Full Speed Device (12 Mbps); USB 3.0 extended operability, tested with hubs/ controllers
UART Interface	Baud Rate 9600 to 921600bps; OK5127 Serial Protocol
Operating Systems	Windows 10/8.1/8/7/Server 2016/Server 2012/ Server 2008R2; Linux Debian 6.0+ / Ubuntu 11.04+/ Fedora 15+; Open SUSE 11.4+; Mac OS X**; Android™ 4.x to 9.x**
PC/SC Driver	Compliant with native OS CCID drivers (in CCID mode) HID proprietary PC/SC drivers available for: Windows® XP / Vista™ / 7 (32 bit / 64 bit) / 8, 2003 Server, 2008 R2 Server, Linux (32 / 64 bit, incl. Debian 6.0, Fedora 15, OpenSUSE 11.4, Ubuntu 11.04) & Mac OS X (10.5 Leopard and higher, Intel 32 / 64 bit)
Keyboard Driver	Native driver from operating system supporting MF-102 keyboard (Windows/Linux/Mac)
Supported APIs	PC/SC - API, SAM - API

Human Interface

Status Indicator	Reader Board: Dual color LED (Green=ready, Red=busy); Industrial Housing: Buzzer (Programmable)
Connectors	Micro USB connector (cable not included); Pico Blade Connector (UART Interface)
Optional Accessories	Cable Management Kit

Compliance Regulatory

Approvals/Environmental	Compliant to ROHS/REACH, WEEE, IEC 60950-1, CE, UKCA, FCC Modular, IC (Canada)

Part No. / Model

	HID - OMNIKEY® 5127CK BLE
	HID - OMNIKEY® 5127CK BLE (incl. Housing)
	HID - OMNIKEY® 5127CK