ID-engine® PAD

Universal Contactless Smartcard and RFID Read Write Device

RF-STANDARDS

⇨ ISO14443A/B 106 to 848kbit/s
⇨ ISO15693
⇨ NFC (initiator)

ENCRYPTION

⇨ Mifare® Classic
⇨ Mifare DESFire® / EV 1
⇨ DES
⇨ AES
⇨ my-d®
⇨ SAM (ISO7816) optional
⇨ Legic Advant® (separate version)

HOST INTERFACES

⇨ USB 2.0 full speed
⇨ RS232 (on request for qty 100 pcs and up)

APPLICATION INTERFACE

⇨ USB drivers Win and Linux
⇨ PC/SC driver Win2k/XP
⇨ SDK

SPECIAL FEATURES

⇨ Encrypted configuration download
⇨ Firmware upgradeable

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The ID-engine PAD reader is an ultra-flat desktop read/write device, perfectly suited for various applications like e-passport, ticketing, e-purse, logical access etc. Based on BALTECH's *ID-engine* platform, host interface and functionality are fully compliant to the BALTECH reader product suite consisting of *ID-engine* reader modules, *ID-engine LongRange*, *ACCESS*-series access control readers and the *CCT*-series Contactless Smartcard terminals.

All products can support both ISO15693 and ISO14443A/B standards with the highest performance levels. On top of the standards, *ID-engine PAD* offers fast encryption for mifare®, my-d® and DES and AES. Optionally, an integrated ISO7816 compliant SAM-connection is provided to support proprietary authentification and encryption mechanisms.

BALTECH's VHL instruction set can provide card independence of the application software and a further increase of the high speed card transaction performance to a level which is a class of its own. Application specific configuration data can be loaded encrypted through the host interface or special configuration cards.
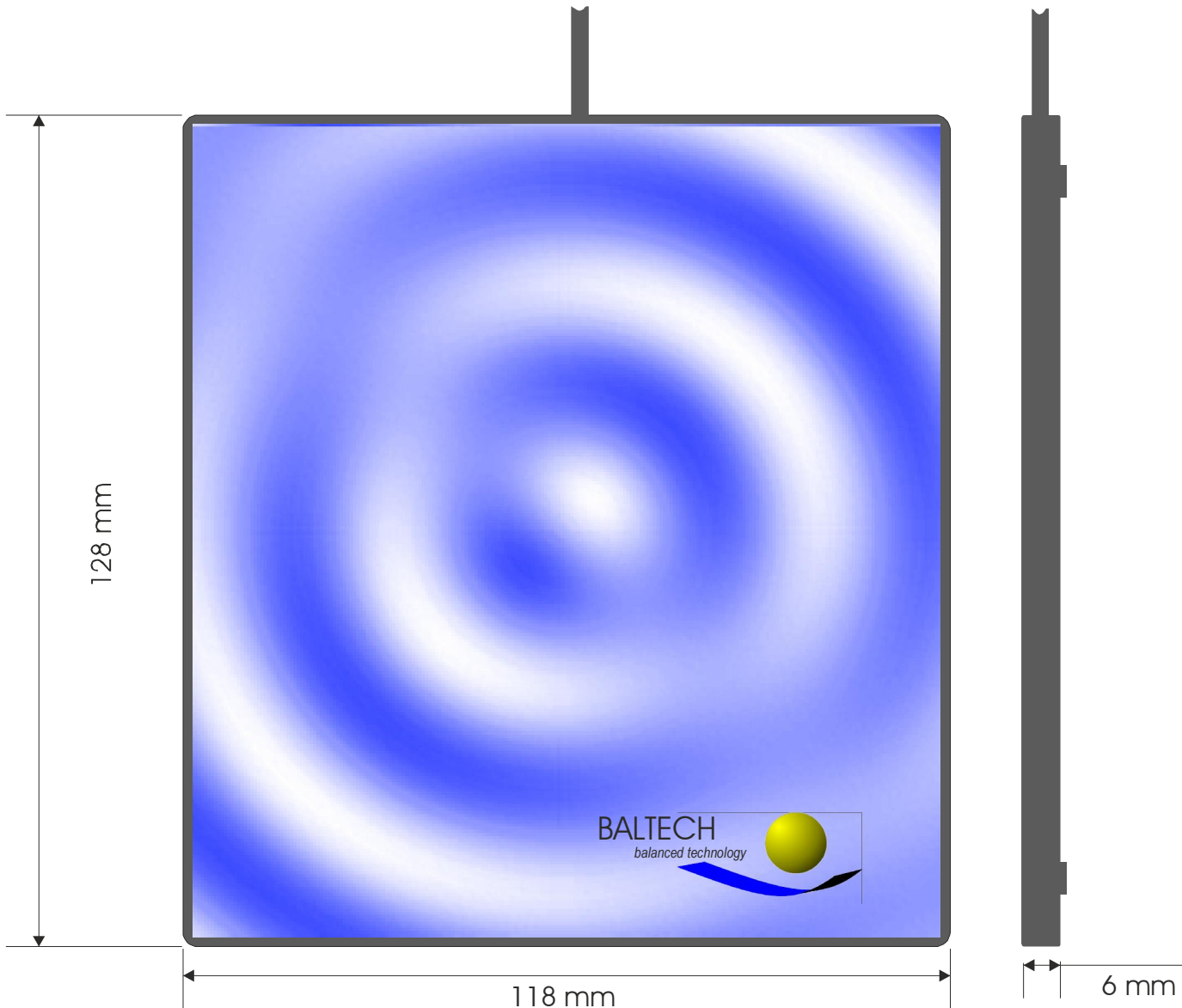
Software application support is provided in form of device drivers for various platforms and a DLL for MS Windows. As with all BALTECH products, *ID-engine PAD* firmware can be upgraded to keep in pace with the rapidly changing functionalities of high end Contactless Smartcard technology.

Customization of the product is offered through application specific firmware versions or customized front cover designs. Please contact BALTECH for details.

ID-engine® PAD

ISO14443&15693 compliant Read Write Device

128 mm

118 mm

6 mm

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Technical Data

Supply Voltage:	USB Bus powered
Supply Current:	250 mA max
Operating Temperature:	-20...+60°C
Interface:	USB 2.0 full speed
	RS232 on request

Read / Write Distances
ISO15693: 100...200 mm typ. / 280 mm max.
ISO14443: 50...100 mm typ. / 170 mm max.

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