rf IDEAS FIDO2 Wave ID Reader User Guide

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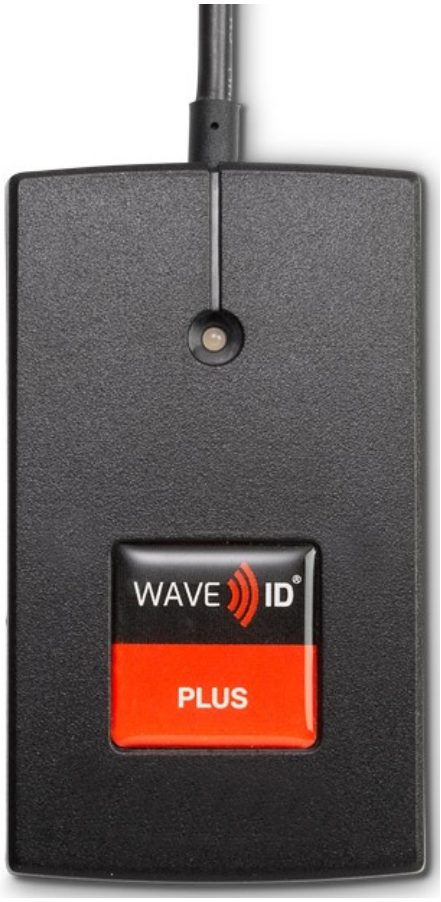

rf IDEAS off ers the following WAVE ID Plus and WAVE ID Nano readers that are compatible with FIDO2 NFC authenticators, in addition to most proximity and contactless cards worldwide

- RDR-80586AKU: WAVE ID Plus V2 CCID/FIDO2 Black USB Reader
- RDR-7516AKU: WAVE ID Nano Vertical 13.56 MHz CCID USB (Type A) Reader

- RDR-75U6AKU: WAVE ID Nano Vertical 13.56 MHz CCID USB-C Reader

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Interface:

These readers use a composite of two interfaces: the rf IDEAS SDK interface and the CCID smart card interface. Through the CCID interface, the reader is compatible with the PC/SC protocol.

USB VID/PID

The reader USB VID is 0x0C27 and PID is 0xCCDA.

FIDO2 Operation:

The readers are plug-and-play with any PC with any CCID driver. FIDO2 NFC operation will be supported by default (pre-set “RDR-758x Equivalent” card type), although in some scenarios (e.g. multi-technology cards) it will be advisable to confi gure the reader for the “FIDO2/U2F” card type, by using the rf IDEAS Confi guration Utility (v6.0.8 or later).

PIV Operation:

Similar to FIDO2 operation, the rf IDEAS CCID readers operate in PC/SC transparent mode and will support contactless PIV credentials with x.509 certifi cates. This will work with the default reader confi guration (“RDR-758x Equivalent” card type). The readers only support the short APDU format at this time. Customers should test and validate the reader performance in their PIV applications, before purchasing the reader.

FIDO2 Performance:

The table below shows the FIDO2 NFC authenticators rf IDEAS has tested and validated with the readers. Due to wide variation in NFC designs by various vendors, the performance will diff er and may be compromised, especially with the WAVE ID Nano readers due to a smaller NFC antenna. rf IDEAS does not guarantee performance with any authenticators not summarized below, and customers are advised to validate the performance for their application before purchasing the readers.

CREDENTIAL	TYPE	RDR-80586AKU	RDR-7516AKU	RDR-75U6AKU
Sentry	Card	Y	C	C
Thales IdPrime	Card	Y	C	C
ATKey Card	Card	Y	C	C
HID Crescendo	Card	Y	N	N
Idemia	Card	Y	C	C
Feitian Key Type-A	Key	Y	Y	Y
Feitian Key Type-C	Key	C	Y	Y
Yubikey NFC	Key	Y	Y	Y
Identiv Key	Key	Y	Y	Y

Y – Supported; N – Not supported; C – Conditional (limited NFC read range, position dependent; customers must validate that performance meets their requirements).

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Documents / Resources

	**rf IDEAS FIDO2 Wave ID Reader** [pdf] User Guide FIDO2, Wave ID Reader, FIDO2 Wave ID Reader, Reader, Readers

References

- **Homepage \| rf IDEAS**