NFC Reader Recommendations

Nymi Band

v2.2

2024-10-18

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Revision History

Date	Version	Revision History
April 04, 2023	1.0	Initial version.
April 11, 2023	1.1	Small fixes
October 19, 2023	2.0	Adding NFC reader and tablets to supported list
March 20, 2024	2.1	Adding the HID Omikey-5022 IP-67 IP-67 level rated variant to the recommend list
October 18, 2024	2.2	Updated Systec CONNECT BOX IP rating. Updated HID Omikey-5022 CL as the cleanroom variant.

		Removed HID Omnikey 5127CK Mini as it is test inside a tablet rather than as a separate entity. Removed supported tablets from this guide. Please see **Supported Tablet Computers** Guide. Removed reference to Connected Worker Platform. Compatibility applies to the Nymi Band. Amended note about FIDO2 compatibility with the RFIdeas Wave Nano reader.

NFC Reader Recommendations

This document provides the supported technical specifications along with the NFC Readers that have been tested with the Nymi Band.

NOTE: If you want to use an NFC reader that is not listed in this article and supports the general reader requirements that are listed below, contact Nymi for more information regarding the NFC reader qualification process.

General Reader Requirements

In general, the minimum requirements of a Nymi Band-compatible NFC reader are:

- ISO14443A compatibility
- Operation frequency of 13.56MHz
- PC/SC compatibility

Recommended NFC Readers

Nymi recommends that customers use this reader in the Nymi Solution, based on its superior read range performance. This reader is tested with every release.

Use Case	NFC Reader Model
General Use	HID Omnikey 5022
Cleanroom	HID Omnikey 5022CL IP-67 level rated variant

Verified NFC Readers

Nymi has tested and supports the NFC readers in supported releases, but the following NFC readers are not tested in every release.

Use Case	NFC Reader Model
General Use	ACS ACR122U
General Use	Elatec TWN4 MULTITECH 2 [1] (Part Number:T4BT-FB2WEL7-M) **Not FIDO 2 Compatible** Elatec TWN4 MULTITECH 3 [1] Elatec TWN4 LEGIC NFC USB (Part Number: T4DT-BB2BEL-NL)
Cleanroom	Elatec TWN4 MULTITECH 3 [1] with the DS-TWN4-Silicone-Housing Elatec TWN4 LEGIC NFC USB (Part Number: T4DT-BB2BEL-NL) with the DS-TWN4-Silicone-Housing
Cleanroom / IP65 Rated / Single port BLE + NFC	Systec CONNECT BOX [2]
General Use	Identiv CLOUD/uTrust 3700 F
General Use	ACS ACR1252U
General Use	RFIdeas WAVE ID Nano Vertical 13.56 MHz CCID USB Reader (SKU: RDR-7516AKU [USB-A], RDR-75U6AKU [USB-C])
General Use	RFIdeas WAVE ID Nano SDK 13.56 MHz CSN Black Vertical USB Reader (SKU: RDR-7512AKU [USB-A], RDR-75U2AKU [USB-C]) **FIDO 2 Compatibility with iOS requires an updated firmware from RFIdeas which is in pre-production at this time.**
General Use	iDTRONIC NEO 2 HF	NFC Desktop Reader (Part Number: R-DT-NEO2-HF)
General Use	HID Omnikey 5427CK Gen 2

1. At the time of placing your order, request firmware version WN4_xJx402_Y1SC160_Multi_CCID_1Slot_NYMI.bix
2. At the time of placing your order, request firmware version WN4_NJx402_Y1SC160_Nano_CCID_1Slot_NYMI_WIP0001.bix

Unsupported NFC Readers

The following readers are either incompatible with Nymi or have been discontinued.

Model	Status
HID Omnikey 5021	Discontinued
HID Omnikey 5025	Incompatible (operates at 125 kHz)