



# NFC Reader Recommendations

March 25, 2026

Version 2.9



October 18, 2024	2.2	<p>Updated Systec CONNECT BOX IP rating.</p> <p>Updated HID OMNIKEY 5022 CL as the cleanroom variant.</p> <p>Removed HID OMNIKEY 5127CK Mini as it is test inside a tablet rather than as a separate entity.</p> <p>Removed supported tablets from this guide. Please see <b>Supported Tablet Computers</b> Guide.</p> <p>Removed reference to Connected Worker Platform. Compatibility applies to the Nymi Band.</p> <p>Amended note about FIDO2 compatibility with the RFIdeas Wave Nano reader.</p>
July 17, 2025	2.3	<p>Removed <b>ACS ACR122U</b> as this product is now discontinued</p> <p>Added the tested part number for the <a href="#">ACS ACR1252U</a></p> <p>Moved the RFIdeas WAVE ID Nano SDK 13.56 MHz CSN Black Vertical USB Reader to the Verified SDK NFC Reader section</p>
August 27, 2025	2.4	<p>Added a section for Verified Transparent Screen Lock (TSL) NFC Readers with the WAVE ID Plus Mini CCID Black USB Reader (SKU: RDR-80536BKU)</p>
August 29, 2025	2.5	<p>Added HID OMNIKEY 5023 to the Recommended NFC Readers</p>
November 13, 2025	2.6	<p>Added buy now button to HID NFC readers on page 4</p>
November 25, 2025	2.7	<p>Updated links to HID product pages and small formatting changes</p>
December 12, 2025	2.8	<p>Minor update to the layout of document</p>
March 25, 2026	2.9	<p>Added <b>HID OMNIKEY SE Plug</b> to Verified NFC Readers table.</p>





# 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	<a href="#">HID OMNIKEY 5022</a> 
Cleanroom	<a href="#">HID OMNIKEY 5022 IP67</a> 
General Use, NFC with SEOS	<a href="#">HID OMNIKEY 5023</a>  (Integrated cryptographic module for SEOS)



## 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	<a href="#">Elatec TWN4 MULTITECH 2</a> <sup>1</sup> (Part Number:T4BT-FB2WEL7-M) <b>Not FIDO 2 Compatible</b>
	<a href="#">Elatec TWN4 MULTITECH 3</a> <sup>1</sup>
	<a href="#">Elatec TWN4 LEGIC NFC USB</a> (Part Number: T4DT-BB2BEL-NL)
Cleanroom	<a href="#">Elatec TWN4 MULTITECH 3</a> <sup>1</sup> with the <a href="#">DS-TWN4-Silicone-Housing</a>
	<a href="#">Elatec TWN4 LEGIC NFC USB</a> (Part Number: T4DT-BB2BEL-NL) with the <a href="#">DS-TWN4-Silicone-Housing</a>
Cleanroom / IP65 Rated / Single port BLE + NFC	<a href="#">Systec CONNECT BOX</a> <sup>2</sup>
General Use	<a href="#">Identiv CLOUD/uTrust 3700 E</a>
General Use	<a href="#">ACS ACR1252U</a> (Part Number: CR-ACS-ACR1252U-M1)
General Use	<a href="#">RFIdeas WAVE ID Nano Vertical 13.56 MHz CCID USB Reader</a> (SKU: RDR-7516AKU [USB-A], RDR-75U6AKU [USB-C])
General Use	<a href="#">iDTRONIC NEO 2 HF   NFC Desktop Reader</a> (Part Number: R-DT-NEO2-HF)
General Use	<a href="#">HID OMNIKEY 5427CK Gen 2</a>
General Use	<a href="#">HID OMNIKEY SE Plug</a> (Firmware 25.B) <sup>3</sup>

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
3. Requires Nymi Band Firmware 5.0.7 or newer





## Verified SDK NFC Readers

Use Case	NFC Reader Model
SDK Model	<p><a href="#">RFIdeas WAVE ID Nano SDK 13.56 MHz CSN Black Vertical USB Reader</a> (SKU: RDR-7512AKU [USB-A], RDR-75U2AKU [USB-C])</p> <p><b>Requires integration with the rFIDEAS SDK (a Windows library of .DLL files that provides the APIs needed for applications to communicate with the reader). Not compatible with CCID tools. The SDK enables custom applications to handle reader functions such as credential parsing, event handling, and integration with authentication workflows.</b></p> <p>Fully supported by Nymi's Connected Worker Platform (CWP). FIDO2 functionality is <b>not</b> supported. <i>For FIDO2 functionality please refer to this General Use reader: <a href="#">RFIdeas WAVE ID Nano Vertical 13.56 MHz CCID USB Reader</a></i></p>

## Verified Transparent Screen Lock (TSL) NFC Readers

Transparent Screen Lock (TSL) secures Windows sessions by locking keyboard and mouse input while keeping applications visible, allowing IT and operators to monitor activity without risking unauthorized access.

Use Case	NFC Reader Model
TSL Model	<p><a href="#">WAVE ID Plus Mini CCID Black USB Reader</a> (SKU: RDR-80536BKU)</p> <p>TSL requires integration with the rFIDEAS SDK (v7.5.1 or later) to enable NFC credential handling and lock/unlock events. Additionally this reader fully supports NBE, FIDO2, and Evidian.</p>



## 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)
ACS ACR122U	Discontinued



## **About Nymi**

Nymi, a Toronto-based company, creates a wrist-worn connected worker platform that unifies and enhances workplace connectivity for the digital future.

The Nymi Band™ consolidates workplace connectivity onto a platform that unifies the workplace across multiple environments by securing the point at which the worker and technology converge. By moving identity to the secure edge, organizations are able to eliminate silos and gain a complete view of their business with new applications enabled exclusively through a connected worker approach. As part of its diverse, global customer base, Nymi serves the world's largest enterprises with deployments across 15 countries.

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