

# Kofax ID Card Reader

	Mifare (gen 2)	HID/Indala (gen 2)	Multi-Card BC	iClass Seos + Multi-Card BC	iClass and Legic
<b>Orderable Part Number:</b>	<a href="#">CRU00X02</a>	<a href="#">CRU00Z02</a>	01HWD019H1M0	01HWD020H1M0	<a href="#">CRU00Y03</a>
<b>Host Interface:</b>	USB 2.0 Full Speed (USB 1.1 Compatible)				
<b>Host Connector:</b>	USB Type A Plug				
<b>Host Protocol:</b>	USB HID (works with native drivers included in Windows, Mac, Linux and most other operating systems) USB HID keyboard emulation (requires programming of reader with Stock Configuration)				
<b>Host Interface Security:</b>	Authentication, Mutual Authentication, AES Encryption <sup>3</sup>				
<b>Visual Indicator:</b>	Bi-color LED (Red/Green)				
<b>Audible Indicator:</b>	Piezo Beeper				
<b>Power Supply (USB VBUS):</b>	4.7 to 5.5 VDC				
<b>Absolute Max Current:</b>	300 mA				
<b>Max Operating Current:</b>	165 mA	80 mA	191 mA	216 mA	200 mA
<b>Average Operating Current:</b>	140 mA	55 mA	106 mA	106 mA	110 mA
<b>Response Time:</b>	75 to 580 ms				
<b>Operating Environment:</b>	-20 to +60 °C, 20 to 80% RH (non condensing)				
<b>Storage Environment:</b>	-25 to +70 °C, 10 to 90% RH (non condensing)				
<b>MTBF:</b>	500,000 Hours				
<b>Housing:</b>	Injection Molded PC/ABS, Quartz White				
<b>Housing Size, L x W x H:</b>	85 x 48 x 17 mm				
<b>Weight, with cable:</b>	94 g	97 g	98 g	101 g	98 g
<b>Cable Length:</b>	1.8 m				
<b>Package Size, L x W x H:</b>	175 x 90 x 53 mm				
<b>Package Includes:</b>	Reader, Velcro, Cable Ties, USB mini-B Plug Adapter, Compliance Insert				
<b>Packaged Weight:</b>	158 g	161 g	162 g	165 g	162 g
<b>Environmental Compliance:</b>	RoHS 2, China RoHS, REACH, WEEE <sup>1</sup>				
<b>Compatible Low Frequency (LF) Transponders</b>	N/A	AWID Cardax (raw data only) Deister EM-Marin FDX-B <sup>4</sup> G-Prox HID Indala ASP, ASP+ (raw data only) <sup>4</sup> HID Proximity Hitag 1/2 (256, 2048), S Honeywell Nexwatch Quadrakey ioProx Keri Miro Pyramid / Farpointe Data Q5 <sup>4</sup> Radio Key / SecuraKey Sokymat Unique T5567/T5557 <sup>4</sup> Titan <sup>4</sup> Zodiac <sup>4</sup>		AWID <sup>2</sup> Cardax (raw data only) <sup>2</sup> Deister <sup>2</sup> EM-Marin <sup>2</sup> FDX-B <sup>2,4</sup> G-Prox <sup>2</sup> HID Indala ASP, ASP+ (raw data only) <sup>2,4</sup> HID Proximity <sup>2</sup> Hitag1/2 (256, 2048), S <sup>2</sup> Honeywell Nexwatch Quadrakey <sup>2</sup> ioProx <sup>2</sup> Keri <sup>2</sup> Miro <sup>2</sup> Pyramid/Farpointe Data <sup>2</sup> Q5 <sup>2,4</sup> Radio Key/SecuraKey <sup>2</sup> Sokymat Unique <sup>2</sup> T5567/T5557 <sup>2,4</sup> Titan <sup>2,4</sup> Zodiac <sup>2,4</sup>	N/A

# PRODUCT SPECIFICATIONS

	Mifare (gen 2)	HID/Indala (gen 2)	Multi-Card BC	iClass Seos + Multi-Card BC	iClass and Legic
<b>LF Read Range<sup>5:</sup></b>	N/A	10 to 30 mm			N/A
<b>Compatible High Frequency (HF) Transponders</b>	HID iCLASS (UID only) <sup>6</sup> HID iCLASS SE, Seos (UID only) <sup>6,7</sup> LEGIC Advant (UID only) <sup>6</sup> Calypso ISO14443 A/B general, including: <ul style="list-style-type: none"> <li>• Cepas</li> <li>• Infineon my-d proximity</li> <li>• NFC Forum Tag 1-4</li> <li>• NXP SmartMX, ProX</li> <li>• Paypass</li> <li>• SRIX512, SRIX4K</li> </ul> ISO15693 General, including: <ul style="list-style-type: none"> <li>• EM 4033, 4035</li> <li>• Infineon my-d vicinity</li> <li>• NXP iCode</li> <li>• Tag-it ISO</li> </ul> Mifare, including: <ul style="list-style-type: none"> <li>• Classic (1K, 4K, Mini)</li> <li>• DESfire, -EV1 (2K, 4K, 8K)</li> <li>• Plus (-S, -X, L1, L2, L3)</li> <li>• Ultralight, -C</li> </ul> Pico Pass Rijkspas Sony FeliCa	N/A	HID iCLASS (UID only) <sup>6</sup> HID iCLASS SE, Seos (UID only) <sup>6,7</sup> LEGIC Advant (UID only) <sup>6</sup> Calypso ISO14443 A/B general, including: <ul style="list-style-type: none"> <li>• Cepas</li> <li>• Infineon my-d proximity</li> <li>• NFC Forum Tag 1-4</li> <li>• NXP SmartMX, ProX</li> <li>• Paypass</li> <li>• SRIX512, SRIX4K</li> </ul> ISO15693 general, including: <ul style="list-style-type: none"> <li>• EM 4033, 4035</li> <li>• Infineon my-d vicinity</li> <li>• NXP iCode</li> <li>• Tag-it ISO</li> </ul> Mifare, including: <ul style="list-style-type: none"> <li>• Classic (1K, 4K, Mini)</li> <li>• DESfire, -EV1 (2K, 4K, 8K)</li> <li>• Plus (-S, -X, L1, L2, L3)</li> <li>• Ultralight, -C</li> </ul> Pico Pass Rijkspas Sony FeliCa	HID iCLASS (Full decoding) HID iCLASS SE, Seos (Full decoding) LEGIC Advant (UID only) <sup>2,6</sup> Calypso <sup>2</sup> ISO14443 A/B general <sup>2</sup> , including: <ul style="list-style-type: none"> <li>• Cepas</li> <li>• Infineon my-d proximity</li> <li>• NFC Forum Tag 1-4</li> <li>• NXP SmartMX, ProX</li> <li>• Paypass</li> <li>• SRIX512, SRIX4K</li> </ul> ISO15693 general <sup>2</sup> , including: <ul style="list-style-type: none"> <li>• EM 4033, 4035</li> <li>• Infineon my-d vicinity</li> <li>• NXP iCode</li> <li>• Tag-it ISO</li> </ul> Mifare <sup>2</sup> , including: <ul style="list-style-type: none"> <li>• Classic (1K, 4K, Mini)</li> <li>• Mifare DESfire, -EV1 (2K, 4K, 8K)</li> <li>• Mifare Plus (-S, -X, L1, L2, L3)</li> <li>• Mifare Ultralight, -C</li> </ul> Pico Pass <sup>2</sup> Rijkspas <sup>2</sup> Sony FeliCa <sup>2</sup>	HID iCLASS (Full decoding) HID iCLASS SE, Seos (UID Only) <sup>2,6,7</sup> LEGIC Prime, Advant (Full decoding) Calypso <sup>2</sup> ISO14443 A/B general <sup>2</sup> , including: <ul style="list-style-type: none"> <li>• Cepas</li> <li>• Infineon my-d proximity</li> <li>• NFC Forum Tag 1-4</li> <li>• NXP SmartMX, ProX</li> <li>• Paypass</li> <li>• SRIX512, SRIX4K</li> </ul> ISO15693 general <sup>2</sup> , including: <ul style="list-style-type: none"> <li>• EM 4033, 4035</li> <li>• Infineon my-d vicinity</li> <li>• NXP iCode</li> <li>• Tag-it ISO</li> </ul> Mifare <sup>2</sup> , including: <ul style="list-style-type: none"> <li>• Classic (1K, 4K, Mini)</li> <li>• DESfire, -EV1 (2K, 4K, 8K)</li> <li>• Plus (-S, -X, L1, L2, L3)</li> <li>• Ultralight, -C</li> </ul> Pico Pass <sup>2</sup> Sony FeliCa (UID/IDm only) <sup>2,6</sup>
<b>HF Read Range<sup>5:</sup></b>	20 to 85 mm	N/A	15 to 85 mm		35 to 100 mm
<b>HF Encryption Support<sup>8:</sup></b>	AES, DES, 3DES, 3K3DES, MAC, Mifare Classic, DESFire, DESFire-EV1, Mifare Plus L1, L2, L3		AES, DES, 3DES, 3K3DES, MAC, Mifare Classic, DESFire, DESFire-EV1, Mifare Plus L1, L2, L3	AES, DES, 3DES, 3K3DES, EEC, MAC, RSA, HID iCLASS, iCLASS SE, Seos, Mifare Classic, DESFire, DESFire-EV1, Mifare Plus L1, L2, L3	AES, DES, 3DES, 3K3DES, MAC, HID iCLASS, LEGIC, Mifare Classic, DESFire, DESFire-EV1, Mifare Plus L1, L2, L3
<b>Business Connect Support:</b>	No	No	Android, iOS	Android, iOS	No
<b>SAM Slot:</b>	No	No	No	Yes	No

## Notes:

- Individual country certifications vary by reader model. Contact your Kofax sales representative to confirm availability in the countries of interest.
- Disabled by default, readers require configuration in order to enable support.
- Host interface authentication and encryption not available in USB HID keyboard emulation mode.
- Transponder is supported by reader hardware but special firmware may be required to recover a unique ID or other data. Programmed samples of customer cards must be submitted for evaluation, contact your Kofax sales representative.

- Range varies with transponder type and is based on the use of standard identification and financial (ISO 7811) sized cards with readers mounted to a non-metallic surface. Use of alternate transponder formats (fobs, stickers, mechanical keys with smart heads, etc.) or mounting to a metallic surface results in a reduction of the published read range.
- By default readers return a Unique ID (UID) for each card or tag within a given transponder family. It is not possible for the reader to access other data stored in transponders designated 'UID only.'
- iCLASS Seos UIDs can only be returned from Seos cards special ordered with Static UIDs, as randomized UIDs are unsuitable for user identification and ignored by default.
- Access to encrypted transponder data requires customization of the reader with secured configuration files. For more information contact your Kofax sales representative.

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