

# idChamp® NF4 Specifications

SKU: NF4

<b>ELECTRICAL</b>	
<b>Data Interface</b>	RS-232/USB, BLE 4.0
<b>Power Source</b>	USB/ Battery
<b>Battery Option</b>	Yes
<b>Battery Type</b>	Internal Rechargeable Lithium-Polymer battery 3.7 VDC
<b>Charging Method</b>	Micro USB
<b>Charge Cycles</b>	~500
<b>Charging Time</b>	~ 4 hours
<b>Operating Time</b>	~ 9 hours when constantly scanning
<b>PHYSICAL</b>	
<b>Dimensions</b>	100.90 x 51.40 x 22.25 mm (3.972 x 2.02 x 0.876 in)
<b>Weight</b>	113 grams (4 oz)
<b>ENVIRONMENT</b>	
<b>Operating Temperature (NFC Engine)</b>	-25 °C to +70 °C (-13 °F to +158 °F)
<b>Humidity</b>	10 - 90% Relative Humidity
<b>Approvals</b>	Compliant to ROHS/REACH, WEEE, IEC 60950-1, CE, FCC Modular, IC (Canada)
<b>CREDENTIAL COMPATIBILITY</b>	
<b>Frequency</b>	125 kHz/134.2 kHz (LF) / 13.56 MHz (HF) / 2402 MHz - 2480 MHz (BT)

<p>Supported Card Types (Standard)</p>	<p><u>ISO14443A:</u>          LEGIC Advant<sup>1)</sup>, MIFARE Classic 1k &amp; 4k EV<sup>12)</sup>,          MIFARE Classic, MIFARE Mini, MIFARE          DESFire EV1, MIFARE DESFire EV2<sup>2)</sup>, MIFARE          Plus S, X, MIFARE Pro X<sup>3)</sup>, MIFARE Smart          MX<sup>3)</sup>, MIFARE Ultralight, MIFARE Ultralight C,          MIFARE Ultralight EV1, NTAG2xx, PayPass<sup>3)</sup>,          SLE44R35, SLE66Rxx          (my-d move)<sup>3)</sup>, Topaz</p> <p><u>ISO14443B:</u>          Calypso<sup>3)</sup>, Calypso Innovatron protocol<sup>3)</sup>,          CEPAS<sup>3)</sup>, HID iCLASS<sup>1)</sup>, Moneo<sup>3)</sup>, Pico Pass<sup>4)</sup>,          SRI4K, SRIX4K, SRI512, SRT512 ISO18092</p> <p><u>ECMA-340:</u>          NFC Forum Tag 1-5, NFC Peer-to-Peer, Sony          FeliCa<sup>5)</sup>, NFC Active and passive          communication mode</p> <p><u>ISO15693:</u>          EM4x33<sup>3)</sup>, EM4x35<sup>3)</sup>, HID iCLASS<sup>1)</sup>, HID          iCLASS SE/SR<sup>1)</sup>, ICODE SLI, LEGIC Advant<sup>1)</sup>,          M24LR16/64, MB89R118/119, SRF55Vxx          (my-d vicinity)<sup>3)</sup>, Tag-it, PicoPass<sup>4)</sup></p> <p>125 kHz, 134.2 kHz:          AWID, Cardax, CASI-RUSCO, Deister<sup>6)</sup>,          EM4100, 4102, 4200<sup>7)</sup>, EM4050, 4150, 4450,          4550, EM4305<sup>8)</sup>, FDX-B, EM4105, HITAG 1<sup>9)</sup>,          HITAG 2<sup>9)</sup>, HITAG S<sup>9)</sup>, ICT<sup>8)</sup>, IDTECK, Isonas<sup>8)</sup>,          Keri, Miro, Nedap<sup>6)</sup>, PAC, Pyramid, Q5, T5557,          T5567, T5577, TIRIS/HDX, TITAN (EM4050),          UNIQUE, ZODIAC</p> <p>Contact us if you don't see your card type here.</p>
<p>Supported Card Types (iClass/Elite/Indala etc.)</p>	<p>All Standard Card Types,          HID iCLASS<sup>10)</sup>, HID iCLASS SE/SR/          SEOS(CSN and Facility Code/PAC)<sup>10)</sup>,          HID iCLASS Elite &amp; SE Elite</p> <p>All Standard Card Types, Cotag, G-Prox<sup>6)</sup>, HID          DuoProx II, HID ISO Prox II, HID Micro          Prox, HID ProxKey III, HID Prox, HID Prox II,          Indala, ioProx, Nexwatch</p> <p>Mobile Credentials</p>