



# HID Global PLT-05151 FARGO DTCii Plus Power Trusted Identities User Guide

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## HID Global PLT-05151 FARGO DTCii Plus Power Trusted Identities User Guide



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## Introduction

The purpose of this section is to provide you with specific information on the Regulatory Compliances, Agency Listings, Technical Specifications and Functional Specifications for the DTC®ii Plus card printer.

#### Regulatory compliance

<b>UL</b>	The card printer is listed under UL 60950-1 (2nd edition) Information Technology Equipment File Number: <b>E145118</b>  This product is intended to be supplied by a Listed Power Unit marked Class 2 and rated for 24Vdc, 3.3A minimum.
<b>CSA</b>	The printer manufacturer has been authorized by UL to represent the card printer as CSA Certified under CSA Standard C22.2 No. 60950-1-07 2nd edition  File Number: <b>E145118</b>

#### Agency listings

<b>Emissions and Immunity Standards</b>	FCC Part 15 Class A, RSS-GEN, RSS 210
<b>Safety Standards</b>	UL IEC 60950-1 (2nd edition), CSA C22.2 No. 60950-1-07 (2nd edition)

#### United States

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the

**FCC Rules.** These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference; in which case, you are required to correct the interference at your expense.

**CAUTION: Any changes or modifications to this device not explicitly approved by the manufacturer could void your authority to operate this equipment.**



**Warning:** This product can expose you to chemicals including Diison only Phthalate (DINP), which is a known to the State of California to cause cancer. For more information go to [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).





#### Canada

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

## Safety messages

### Safety messages – United States

Symbol	Critical instructions for safety purposes
<p><b>Danger:</b></p> 	<p>Failure to follow these guidelines results in personal injury or death. To prevent personal injury or death:</p> <ul style="list-style-type: none"> <li>• Reference the following safety messages before performing an operation.</li> <li>• Always remove the power cord prior to performing repair procedures, unless otherwise specified.</li> <li>• Ensure only qualified personnel perform these procedures.</li> </ul>
<p><b>ESD:</b></p> 	<p>This device is electrostatically sensitive. You may damage the device if exposing it to static electricity discharges. To prevent damage:</p> <ul style="list-style-type: none"> <li>• Reference the following safety messages before performing an operation.</li> <li>• Observe all established Electrostatic Discharge (ESD) procedures while handling cables in or near the circuit board and print head assemblies.</li> <li>• Always wear an appropriate personal grounding device.</li> <li>• Always remove the ribbon and cards from the printer before making any repairs, unless otherwise specified.</li> <li>• Remove jewelry and thoroughly clean hands before working on the printer.</li> </ul>
<p><b>Caution:</b></p> 	<p>This symbol warns of an electrical hazard that could result in personal injury or death.</p>
<p><b>Caution:</b></p> 	<p>For safety purposes, do not use Ethernet for a direct connection outside of the building.</p>

## Technical specifications

<b>Term</b>	<b>Function</b>
<b>Print Method</b>	Dye Sublimation / Resin Thermal Transfer
<b>Print resolution</b>	300 dpi (11.8 dots/mm); continuous tone
<b>Colors</b>	Up to 16.7 million colors / 256 shades per pixel
<b>Print Ribbon Options</b>	<p>Full-color with resin black and overlay panel, YMCKO* (500 prints)  Full-color half-panel with resin black and overlay panel, YMCKO* (850 prints) Full-color with two resin black panels and overlay panel, YMCKOK* (500 prints)  Full-color with fluorescing, resin black panel and overlay panel, YMCFKO* (500 prints)  Full-color with fluorescing, two resin black panels and overlay panel, YMCFKOK* (400 prints) Full-color half-panel with two resin black and overlay panel, YMCKOK* (500 prints)  Full-color half-panel with two resin black and two overlay panels, YMCKOK* (500 prints)  Resin black and overlay panel, KO* (1250 prints)  Dye-sublimation black and overlay print, BO* (1250 prints) Resin black (standard and premium) (3000 prints) Resin green, blue, red, white (1000 prints) Resin silver (2000 prints) Resin gold (1000 prints)  Rewrite technology – No ribbon is required  * Indicates the ribbon type and the number of ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin Black, O=Overlay, F=Fluorescing Resin</p>
<b>Print Speed</b>	<p>8 seconds per card (KO*)  24 seconds per card (YMCKOK*)  Print speed indicates an approximate batch print speed and is measured from the time a card feeds into the printer to the time it ejects from the printer. Print speeds do not include encoding time or the time needed for the PC to process the image. Process time is dependent on the size of the file, the CPU, amount of RAM and the amount of available resources at the time of the print.  * Indicates the ribbon type and the number of ribbon panels printed where Y=Yellow, M=Magenta, C=Cyan, K=Resin  Black, O=Overlay, F=Fluorescing Resin</p>
<b>Card Size and Types Supported</b>	CR-80 (3.375" L x 2.125" W / 85.6mm L x 54mm W)
<b>Accepted Standard Card Sizes</b>	CR-80 edge-to-edge (3.36" L x 2.11" W / 85.3mm L x 53.7mm W)
<b>Accepted Card Thickness</b>	.009" – .040" / 9 mil – 40 mil/.229mm – 1.016mm

<b>Accepted Card Types</b>	<ul style="list-style-type: none"> <li>• Press polished PVC</li> <li>• Laminated PVC (credit card construction)</li> <li>• Blank white chip/mag</li> <li>• Dual interface MC and/orVisa</li> </ul>
<b>Input Hopper Card Capacity</b>	200 cards (.030"/.762 mm)
<b>Output Hopper Card Capacity</b>	100 cards (.030"/.762.mm)
<b>Reject Hopper Card Capacity</b>	100 cards (.030"/.762.mm)
<b>Card Cleaning</b>	Card cleaning roller integrated into the ribbon cartridge. A new cleaning roller is included with each ribbon cartridge.
<b>Printer Memory</b>	32MB RAM
<b>Operating Systems</b>	Windows Server 2003 Windows Server 2008 Windows Server 2016 Windows Server 2019 Windows 7 (32- and 64 bit) Windows 10 (32- and 64-bit)
<b>Interface</b>	Ethernet with internal print server
<b>Operating Temperature</b>	65° F to 90° F / 18° C to 32°C
<b>Humidity</b>	20-80% non-condensing
<b>Dimensions</b>	9.8"H x 22.9"W x 9.2"D/249mm H x 583mm W x 234mm D
<b>Weight</b>	13 lbs./6 kg
<b>Supply Voltage</b>	100-240 VAC, 1.6 A
<b>Supply Frequency</b>	50 Hz/60 Hz
<b>Warranty</b>	Printer – Three years; Printhead – Three years, unlimited pass with UltraCard™

<b>Encoding Options Supported</b>	13.56 MHz (iCLASS®, MIFARE, ISO 14443 A/B, ISO 15693) read/write encoder Contact Smart Card Encoder reads from and writes to all ISO7816 1/2/3/4 memory and microprocessor smart cards (T=0, T=1) as well as synchronous cards ISO Magnetic Stripe Encoding, dual high- and low-coercivity, Tracks 1, 2 and 3
<b>Display</b>	Graphical Display

### Functional specifications

This card printer utilizes two different, yet closely related printing technologies to achieve its remarkable direct-to-card print quality for dye-sublimation and resin thermal transfer.

### Printer components: print ribbons

The card printer utilizes both dye-sublimation and/or resin thermal transfer methods to print images directly onto blank cards. Since the dye-sublimation and the resin thermal transfer print methods each provide their own unique benefits, print ribbons are available in resin-only, dye-sublimation-only and combination dye-sublimation/resin versions.

To make it easier to identify the print ribbons, a letter code has been developed to indicate the type of ribbon panels found on each ribbon:



= Dye-Sublimation Yellow Panel



= Dye-Sublimation Magenta Panel



= Dye-Sublimation Cyan Panel



= Resin Black Panel (Premium unless otherwise stated)



= Clear Protective Overlay Panel



= Fluorescing Panel

### Ribbon types and print counts

<b>Ribbon</b>	<b>DTCii</b>
YMCKO – Full Color/Resin Black / Overlay	N/A
YMCKO Half Panel – Full Color (1/2) / Resin Black/Overlay	N/A
YMCFKO – Full Color/UV Fluorescing / Resin Black / Overlay	N/A
YMCKK – Full Color / 2 Resin Black	N/A
YMCKOK – Full Color / 2 Resin Black / Overlay	200
YMCFKOK – Full Color/UV Fluorescing / 2 Resin Black / Overlay	N/A
YMCKOK – Half Panel-Full Color (1/2) / 2 Resin Black / Overlay	N/A
YMCKOKO – Half Panel-Full Color (1/2) / 2 Resin Black / 2 Overlay	N/A
K – Standard Resin	N/A
K – Premium Resin	N/A
Colored Resin	N/A
KO – Premium Black Resin / Overlay	1250
BO – Dye-Sub Black / Overlay	N/A
SOK – Silver Metallic Resin / Overlay / Resin Black	350
None – Rewritable	Supported

**Printer components: blank cards**

Type	Description
Card Size	The card printer accepts standard CR-80 sized cards.
Card Surface	<p>Suitable cards must have a polished PVC surface free of fingerprints, dust or any other types of embedded contaminants. In addition, cards must have a completely smooth, level surface in order for the printer to achieve consistent color coverage. Certain types of Proximity cards have an uneven surface that will inhibit consistent color transfer.</p> <p>Certain types of smart card chips are raised slightly above the cards surface which also results in poor color transfer.</p>
Ultra Card Brand Cards	<p>The Ultra Card product line, available exclusively as part of HID Global FARGO brand secure card issuance solutions, has a long standing reputation among dealers and end-Users for consistent quality in construction.</p> <p>In addition to blank stock, the Ultra Card line is available in a variety of configurations for magnetic stripe, custom holograms and other additional anti-counterfeiting feature</p> <p>Ultra Card Premium is the preferred card for Direct-to-Card (DTC) applications that require a higher quality card. The UltraCard Premium's composite material construction provides for maximum durability, flexibility and card life, with optimal resolution print quality for lamination and fluorescent panel ribbon printing applications.</p> <p>Ultra Card PVC cards are medium-durability cards for a glossy, photo quality finish. These cards are manufactured to ensure clean, scratch-free cards for high-quality prints and extended print head life.</p>

## Revision history

Date	Description	Revision
August 2020	Initial release.	A.0.R

## Trademarks

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## Contacts US:

For additional offices around the world, see [www.hidglobal.com/contact/corporate-offices](http://www.hidglobal.com/contact/corporate-offices).

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HID Global Technical Support: [www.hidglobal.com/support](http://www.hidglobal.com/support).

## What's new

Date	Description	Revision
August 2020	Initial release.	A.0.R

A complete list of revisions is available in **Revision history**.

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## Trusted Identities

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## Documents / Resources



**[HID Global PLT-05151 FARGO DTCii Plus Power Trusted Identities](#)** [pdf] User Guide  
X001800002, JQ6X001800002, FARGO DTCii Plus Power

## References

- [HID Powering Trusted Identities of the World's People, Places and Things | HID Global](#)
- [HID Corporate Offices | HID Global](#)
- [HID Need Support? | Support](#)
- [P65warnings.ca.gov](#)
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