



# Handheld Computer G3 WINDOWS TABLET

## APPLICATIONS

- Warehouse Management
- Industrial Applications
- Field Services

## FEATURES

- Windows 10 IoT Enterprise
- Large 7.0" HD Display
- Li-Ion Polymer Battery
- HF | NFC Reader
- 2D Barcode Reader
- 4G LTE | HSPA+ | GSM | GPRS
- Bluetooth 4.0 | USB 3.0 | HDMI
- Ethernet | RS232 (Cradles)
- Rear and Front Camera
- IP65 Protection Class

## RFID OPTION

- HF | NFC (ISO 14443A, ISO 15693)

## PRODUCT DESCRIPTION

The G3 Windows Tablet is an 7 inch professional rugged tablet running with Windows 10 IoT Enterprise platform for industrial grade applications. The large size of the screen has the perfect view for professionals to view PDF document and enter data conveniently in the field. It is a true lightweight with just 600 grams. The thickness of 19 mm makes it smoothly carry around into pockets of professionals' uniform.

It is extremely rugged thanks to the IP65 Protection Class. Especially in temperature environments from -20 °C to +60 °C with water, snow or dirt. It is safe against falling downs from a height of 1.2 m also through the four rubber bumpers on the edges. Rainmode enables to sense precise point of your finger during rain, and snow without erroneous input.

The Tablet is available with an integrated HF | NFC Reader in 13.56 MHz and 2D Barcode Imager. Data capturing is easy, thanks to the built-in 8 megapixel rear camera with LED flash and 2 megapixel front camera.

G3 Windows Tablet from iDTRONIC offers connectivity wherever you need it. It features the latest network communication technology including, Wi-Fi, 4G LTE, HSPA+, GSM, GPRS, Bluetooth 4.0, USB 3.0, HDMI and embedded A-GPS. The communication interfaces on desktop cradle and car cradle: Ethernet and RS232 make it applicable for a wide range of industry 4.0 applications.





# TECHNICAL DATA

## PHYSICAL CHARACTERISTICS

Dimensions	203.2 × 131.6 × 18.2 mm
Weight	Net 600 g
Display	7.0 inch HD (1.280 × 800) touch screen with LED backlight Visibility: 700 nits (cd/m2) Capacitive Touch / 10 point multi touch / Gorilla Glass 3
Keypads	3 Front Keys   5 Side Keys (Including 2 programmable keys)
Expansions	MicroSDXC Card / Up to 2 TB cards supported
Communication Interfaces	Tablet side: USB 3.0 Host Extension 10pin connector: Serial, USB 2.0 Host I/O 25 pin connector: USB 2.0 Host, HDMI, Serial Desktop Cradle + Car Cradle: 3 × USB 2.0 Host port, HDMI, Serial, Ethernet, RS232
Battery	Standard: Rechargeable li-ion Polymer, 3.7 V, 5.600 mAh Extended: Rechargeable li-ion Polymer, 3.7 V, 10.050 mAh Backup Battery: RTC Backup Battery

## PERFORMANCE CHARACTERISTICS

CPU	INTEL Cherry Trail Quad Core X5-Z8350 Processor (1.44 GHz up to 1.9 GHz / 2 MB Cache / 64bit / SDP 2W)
RAM   ROM	4 GB   64 GB Optional: 8 GB   128 GB
Storage	MicroSDXC Card / Up to 2 TB cards supported

## PROGRAMMING ENVIRONMENT

Operating System	Windows 10 IoT Enterprise (Optional: Windows 10 Pro)
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## USER ENVIRONMENT

Operating Temp.	-20 °C to +60 °C
Storage Temp.	-30 °C to +70 °C 10% - 93% RH (Non-condensing)
AC Power	Input : AC 100 ~ 240 V, 50 ~ 60 Hz Output : DC +5.0 V, 5 A
Drop Specifications	1.2 m drop to concrete across operating temperature range
Sealing	IP65

## COMMUNICATION

WLAN	2.4 GHz/5.8 GHz Dual Frequency, IEEE 802.11 a/b/g/n/ac
WWAN	EU Frequency band 4G LTE : 800, 900, 1800, 2100, 2600 MHz 3G HSPA+ : 900, 1800, 2100 MHz 2G GSM/GPRS : 900, 1800 MHz
WPAN	Bluetooth 4.0 + HS (BT Headset support)
GPS	Embedded A-GPS, GLONASS (optional)

## 2D BARCODE READER

2D CMOS Imager	Honeywell N3680
Symbologies	PDF417, MicroPDF417, Composite, RSS, TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode, Postal Codes, US Post-Net, US Planet, UK Postal, Australian Postal, Japan Postal, Dutch Postal.etc.

## CAMERA

Resolution	Rear: 8.0 Megapixel   Front: 2.0 Megapixel
Lens	Auto-focus with LED flash

## ETC

Audio	5.1CH HD audio / Dual Speaker, MIC
Jack	DC jack, USB3.0 Type A, 3.5phi Ear-Mic Jack
IO Connector	POGO 25 pin (Power, RS232, USB 3port, HDMI, Ethernet)
Extension PIN	POGO 10 pin
Sensor	Acceleration Sensor, Compass, Ambient Light Sensor
LED	Front 2 LED: Charging, Power

## RFID READER

### HF | NFC

Frequency	13.56 MHz
Protocol	ISO 14443A, ISO 15693
R/W Range	Up to 4 centimeters (tags and environment dependant)

## SUPPORTED STANDARDS | TAGS

ISO14443 A and compatible	Read/Write: MIFARE® DESFire®EV1 2K / 4K / 8K, MIFARE® Classic Mini / 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, MIFARE® Plus S / X, MIFARE® Pro X, NTAG 21x  Read UID only: Read UID only of all other ISO14443A RFID tags
ISO15693 and compatible	EM4135, EM4043, EM4x33, EM4x35, I-Code SLI / SLIX, M24LR16/64, TI Tag-it HF-I, SRF55Vxx (my-d vicinity)

## SOFTWARE INFORMATION

SDK	Based on the Windows 10 API. Scanner SDK(C#) is provided separately.
Language	All languages supported by Windows 10 are supported.
Environment	It can be developed in any development environment supported by Windows 10.

## REGULATORY

Environmental	RoHS-compliant
Electrical Safety	IEC 60950-1: 2005 (2nd Edition) and/or EN 60950-1:2006
WLAN & Bluetooth	ETSI EN300328-V1.7.1(2006-10) IEC 60950-1: 2005 (2nd Edition) and/or EN 60950-1:2006
EDGE/GSM 900/ DCS 1800	3GPP TS 34.123 GCF approved module ETSI EN301 511-V.9.0.2(2003-03) ETSI TS 151 010-1 :V7.9.0(2008-04)
HSDPA	ETSI EN 301 908-1&2-V.3.2.1(2007-5) 3GPP TS 25.102 V8.0.0 (2008-05)
RF Exposure	EN 60950-1: 2006+A11:2009, EN50360: 2001, EN62209-1: 2006 and IEEE1528-2003
EMI/RFI	ETSI EN 301 489-1 V1.8.1(04/2008) ETSI EN 301 489-7 V1.3.1(11/2005) ETSI EN 301 489-V1.3.1(04/2008) EN 55022:2006 Class B EN 61000-3-2:2006 EN 61000-3-3:1995 +A1:2001+A2:2005
Laser Safety	IEC 60825-1:1993+A1:1997+A2:2001, EN 60825-1:1994+A2:2001+A1:2002 "Safety of Laser products"

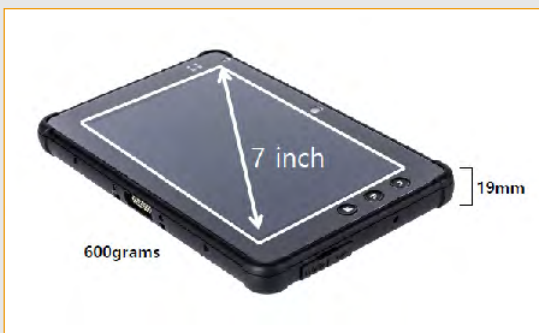
## ACCESSORIES (OPTIONAL)

			
Power Supply	Desktop Cradle	Car Cradle	Extended Battery
			
4 Bay-Slot Battery Charger	Rotating Hand Strap	Direct Vehicle Charger	Cigarette Lighter Charging Cradle

## PRODUCT PICTURES



## PRODUCT DIMENSIONS



## ORDER CODES

VERSION	ORDER CODE
G3 Windows Tablet NFC (13.56 MHz)	R-HH-G3W-NFC

BARCODE OPTION	ORDER CODE
2D Barcode Imager	R-HH-G3W-2DBC

ACCESSORIES	ORDER CODES
5.600 mAh Standard Spare Battery	R-HH-G3W-PSS
10.050 mAh Extended Spare Battery	R-HH-G3W-PSE
Desktop Cradle	R-HH-G3W-DTC
Car Cradle	R-HH-G3W-CC
Power Supply	R-HH-G3W-POS
Stylus Pen	R-HH-G3W-SP
Hand Strap	R-HH-G3W-HS
Rotational Handstrap	R-HH-G3W-RHS

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