



Mobile Computer C2 ATEX

APPLICATIONS

- Chemical Industry
- Construction Sites
- Mining Industry
- Explosion-Hazard Areas
- Oil & Offshore Industry

FEATURES

- RFID HF | NFC Reader
- 1D & 2D Barcode Reader
- ATEX Class II Certified
- 3.650 mAh Battery
- Android 10 "Q"
- 5.0" Touch Screen
- 8 Megapixel Camera
- IP67 Protection Class
- Fingerprint Reader
- 4G LTE | Bluetooth
- Dual-SIM Card
- 2.4 | 5.0 GHz WiFi

RFID OPTIONS

- HF | NFC (ISO 14443 A/B)

PRODUCT DESCRIPTION

The Mobile Computer C2 ATEX is a slight and compact Mobile Device with a multi-touch display. It is a true light-weight with about 250 g and this makes it easy to carry around.

Thanks to its IP67 Protection Class the C2 ATEX can be used for rough environments. C2 ATEX is especially designed for demanding applications on construction sites, chemical environments, mining or oil & offshore industry.

It can also be used in explosive dust and gas atmospheres. Therefore, it is certified on the EU directives on explosion protection with the ATEX Class II. The Directive covers equipment and protective systems intended for use in explosion-hazard atmospheres. C2 ATEX is protected against mineral dust and chemicals. It withstands high temperatures on the surface of up to 60 °C within chemical environments, construction sites or the mining industry.

Its integrated RFID HF/NFC reader with 13.56 MHz can read cards all types of MIFARE® Classic/Ultralight, NTAG 213/215/216 and Fudan 1K cards and transponders. It is also equipped with an 1D & 2D Barcode Scanner.

Thanks to its 3.650 mAh battery the device can stand a whole working day. The USB-C interface or the optional docking station load the battery via a quick charging mode.

The integrated Dual-Slim function makes it possible to use the C2 ATEX as well as a normal smartphone. It is also equipped with Android 10 and a fast 4G LTE & WiFi Connection and a Bluetooth interface. Its integrated fingerprint reader secures the device against unauthorized access.

TECHNICAL DATA

PHYSICAL CHARACTERISTICS

Dimensions	165 × 76 × 15.6 mm
Weight	250 g
Display	5.0 Inch IPS 1.280 × 720 Dragontrial/AGC
Keypads	8 (4 of them individually programmable)
Battery	3.650 mAh (Optional: 8.000 mAh)
Interface	USB-C (Quick Charging Mode)
SIM	Dual SIM Card (2nd Card max. 2 GB) Dual Standby
Camera	8.0 Megapixel Autofocus with LED Flash
Fingerprint Reader	Integrated

PERFORMANCE CHARACTERISTICS

CPU	Octa-Core MT6753
RAM ROM	2 GB 16 GB
Memory	MicroSD (max. 32 GB expansion)

USER ENVIRONMENT

Operating Temperature	-20 °C to +60 °C
Storage Temperature	-30 °C to +70 °C
Shock Resistance	MIL-STD-810G
Drop Specifications	1 – 1.2 meters
Protection Class	IP67

ATEX SPECIFICATIONS

ATEX Certification Class	Standard: EN 60079-0:2012+A11:2013 EN 60079-11:2012 EN 60079-31:2014
ATEX CE Directives	2014/34/EU (Equipment for Explosive Atmospheres)
ATEX Marking	II 2 G Ex ib IIC T3 Gb II 2 D Ex tb III T3 Db

PROGRAMMING ENVIRONMENT

Operating System	Android 10 "Q"
SDK	C2 ATEX Software Development Kit
Language	Javascript
Environment	Android Studio & Eclipse

COMMUNICATION

WLAN	Dual Wi-Fi 2.4 5.0 GHz A/B/G/N
WWAN	<p>► 3G WCDMA B1/2100;B2/1900;B5/850;B8/900; CDMA2000/EVDO 3G:TD/SCDMA</p> <p>► 4G LTE FDD-LTE: B1/2100;B3/1800;B7/2600;B20/800; TDD-LTE: B38/B39/B40/B41</p> <p>► GSM B5/850;B8/900;B3/1800;B2/1900</p>
WPAN	Bluetooth v4.0
GPS	GPS (accuracy up to 5 m)

1D | 2D BARCODE IMAGER

1D Laser Engine	Symbol SE955
Symbologies	All major 1D Barcodes
2D Laser Engine	Zebra SE4710
Symbologies	UPC/EAN, Bookland EAN, UCC Coupon Code, ISSN EAN, Code 128, GS1-128, ISBT 128, Code 39, Code 32, Code 93, Code 11, TLC-39, QR code, Micro QR Code, Aztec, MaxiCode, Postal Codes, UK Postal, Dutch Postal. etc.

RFID READER

Frequency	HF NFC: 13.56 MHz
Reading Range	up to 6 cm*
Protocol	EPC C1 GEN2 / ISO14443A/B

SUPPORTED STANDARDS/TAGS

ISO 14443 A/B	MIFARE® Classic 1K /4K, MIFARE Ultralight®, MIFARE Ultralight® C, NTAG 21x, Fudan 1K
---------------	--

*READING DISTANCE DEPENDS ON TAG, ANTENNA AND ENVIRONMENTAL CONDITIONS.

APPLICATION EXAMPLES

MINING INDUSTRY



The C2 ATEX is ideally suited for the mining industry.

The explosive-protected C2 ATEX is equipped with an RFID high-frequency reader to track the grade or mineral concentration of ore as it is mined in real-time.

The integrated ATEX protection withstands ores and other rocks related dust.

CHEMICAL ENVIRONMENTS



The C2 ATEX is optimally equipped for challenging activities within chemical environments.

In laboratories it is important to track the right chemicals for a medicament or a solution. The different partly corrosive liquids are dangerous.

The C2 ATEX can withstand these corrosive liquids thanks to its ATEX protection certification.

CONSTRUCTION SITES



Thanks to its IP67 rating, the C2 ATEX is ideally suited for harsh environments such as construction sites.

The mobile device is resistant to falls of up to 1.2 metres. Thanks to the ATEX certification it is ideally suited for mining, surface or underground operations.

Thanks to its smartphone function and the integrated camera, the handheld reader can be used for external agreements via phone.

PRODUCT PICTURES



Front View with Fingerprint Reader



Dockingstation



Pistol Grip



Rear view with 8 Megapixel Camera



Side view with Function Keys



Barcode Reader

ACCESSORIES



Pistol Grip

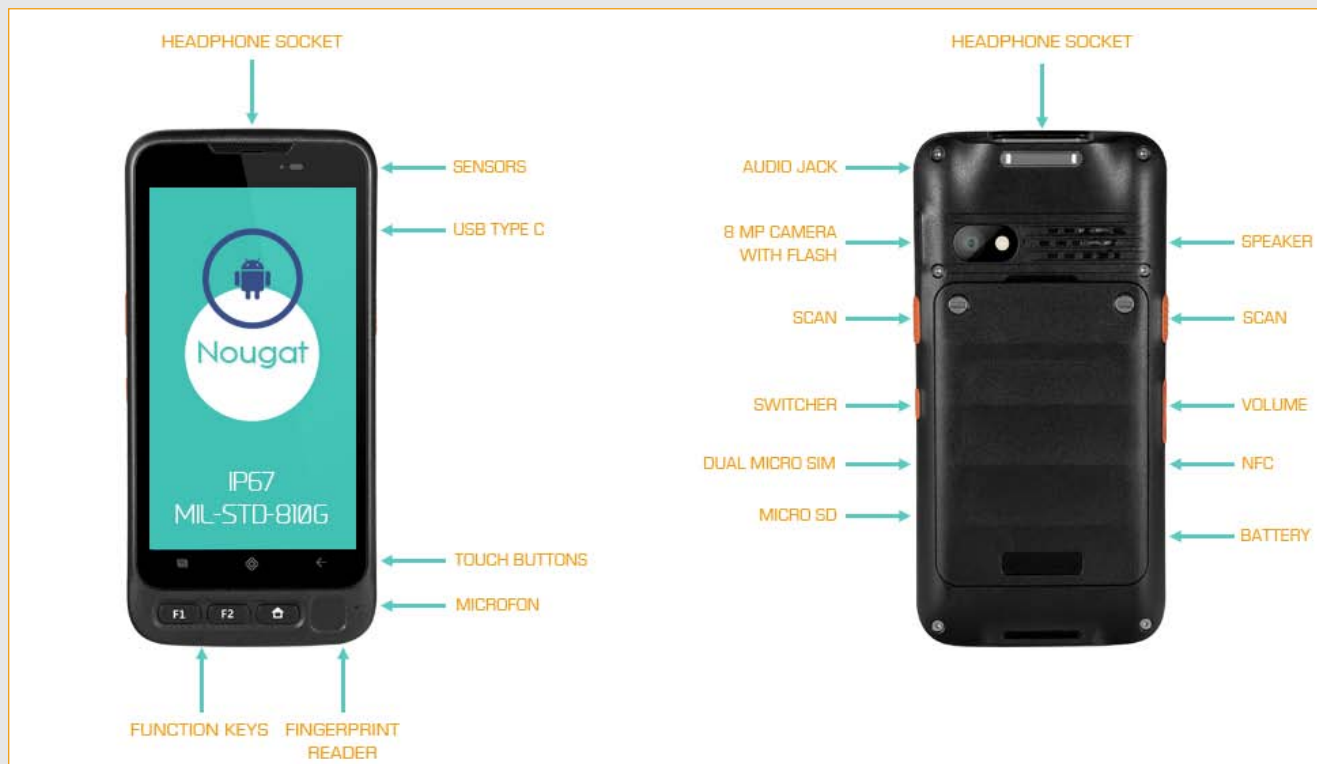


Spare Battery



Docking Station

PRODUCT FUNCTIONS



ORDER CODES

VERSION	ORDER CODE
C2 ATEX	R-HH-M2000-NFC-AT

ACCESSORIES	ORDER CODES
Docking Station	R-HH-C2A-DS
Pistol Grip	R-HH-C2A-GUN
4.000 mAh Spare Battery	R-HH-C2A-PS4
8.000 mAh Spare Battery	R-HH-C2A-PS8

iDTRONIC GmbH
Ludwig-Reichling-Straße 4
67059 Ludwigshafen
GERMANY

Phone +49 (0) 621 66 90 09 4-0
Fax +49 (0) 621 66 90 09 4-9
E-Mail: info@idtronic-mobile.com
Web: idtronic-mobile.com

For further information & prices, please contact info@idtronic-mobile.com

Subject to alteration without prior notice
©2021 iDTRONIC GmbH