COPPERNIC Access-ER-HF Rugged RFID Mobile Terminal User Guide

COPPERNIC

MOBILITY | CONNECTED DATA | ANALYTICS

Access-ER-HF/LF HID
Quick Start and Regulatory Guide

Non-Contractual Pictures

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WHAT'S IN THE BOX ?

Access-ER HF/LF HID

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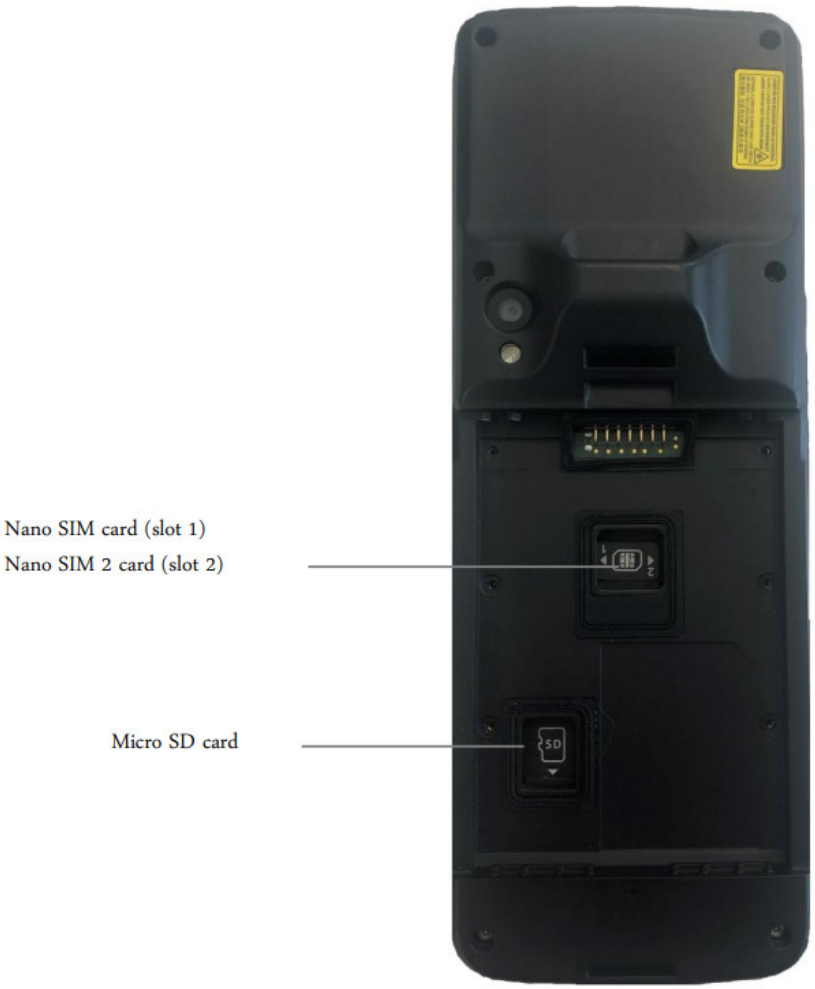
PRODUCT OVERVIEW

Access-ER HF/LF HID

Setting up your device

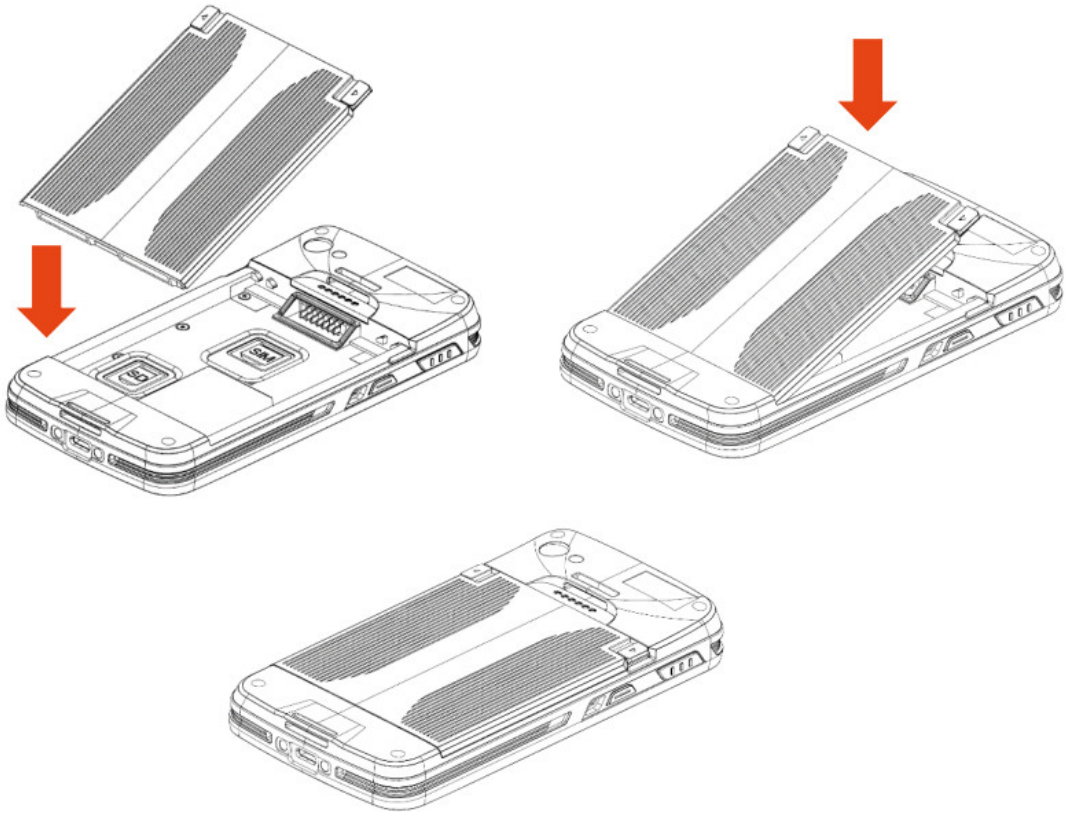
NANO SIM | MICRO SD cards installation

- Press the left and right latches at the same time and remove the battery.
- Insert the Micro SD card into SD slot
- Insert Nano SIM card into SIM slot



Battery installation

- Insert the battery, lower part first.
- Press the upper side of the battery until you hear a “click”.



NOTE
Make sure that the latches are properly positioned to the left and right so that the battery door closes properly.

CAUTION

1. Replace the battery only with an identical battery or with an equivalent type of battery recommended by Coppernic.
2. Please recycle used batteries in accordance with current regulations.

CAUTION
Please make sure the device being charged fully when using Access-ER at first time.
DEVICE: Access-ER
Remove the BATTERY

- Press the left and right latches at the same time.
- Remove the battery.

Charge the BATTERY
Before using the Access-ER, please charge the battery using one of the following accessories approved by COPPERNIC.

1. Insert the micro USB-C cable into the Access-ER and the USB A cable into the power supply.
   > The Micro USB C | USB A cable is included in the device's box.
   > The power supply is included in the device box.

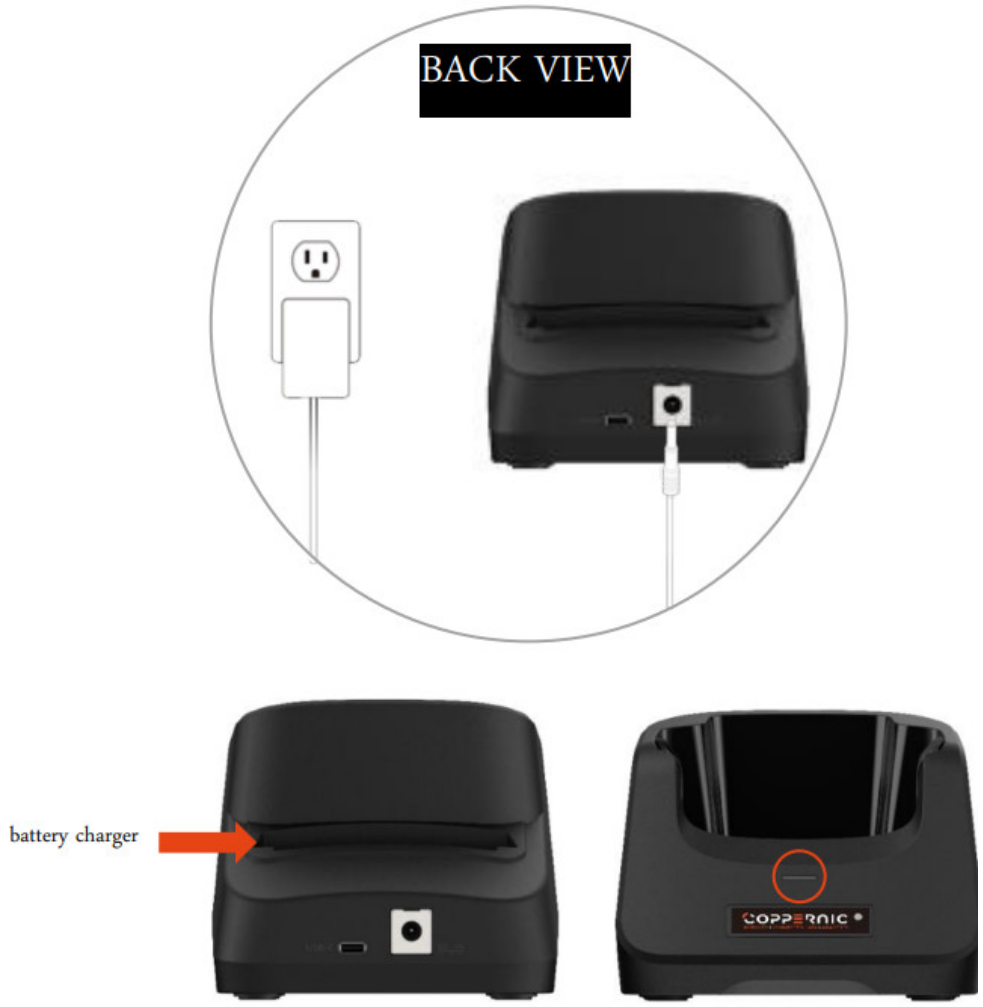
LED indicators

	Red LED blinks	Low battery – Battery level <= 15%
	Red LED	Battery is charging – Battery level > 15% and < 95%
	Green LED	Battery is fully charged – >=95%

CRADLE: DS-ACCESS-1000
The LED indicator shows the connection status of the docking station as well as the battery charge status.

1. Insert the Jack Power Adapter into the docking station and the power supply into the socket.

   > Power supply is included in the docking station box.



●	Red LED	Power connected and low battery power
●	Green LED	Connected to power supply and battery char ged

CAUTION
Charge batteries in temperatures from 0°C to 40°C. The device or cradle always performs battery charging in a safe and intelligent manner. At higher temperatures (e.g. approximately +37°C) the device or cradle may for small periods of time alternately enable and disable battery charging to keep the battery at acceptable temperatures. The Access-ER and its cradle indicates when charging is disabled due to abnormal temperatures via its LED.

Using your device

TURNING ON | TURNING OFF your device
Power On | Press and hold for 3 seconds the ON | OFF button.
Power Off | Press and hold for 2 seconds the ON | OFF button and select “Power off” in the dialog box.
Reboot | Press and hold for 2 seconds the ON | OFF button and select “Reboot” in the dialog window to restart the device.

Suspend Mode | Press and release the ON | OFF button to place the device in suspend mode. The display will be off and go into a low power state to conserve battery power.
Reset | Press and hold the ON | OFF button during 30s.

DATA CAPTURE | photos & videos

Use cameras to take photos and record videos.

1. Go to the Home screen > select “Camera” > press the camera icon to take a picture/ switch to the video icon and press for video recording.
2. Press the icon  to switch between cameras (front | back).

NOTE

Ensure device memory or extend Micro SD card space is available.
Highly suggest to use camera app which is included in Android OS already. Using 3rd party application may cause any malfunction.

DATA CAPTURE | barcode scanner

CAUTION

Class 2 laser when open.
Do not stare into beam or view with optical instruments.
Complies with 21cfr1040.10 and 1040.11 except for deviations pursuant to laser notice no. 50, dated June 24, 2007 and IEC/EN 608251:2014.

 Scan with the imager

- Use the “B-Manager” application provided by Coppernic to set up the reader and the “B-Scan” application to read a barcode.

DATA CAPTURE | barcode scanner
Side-Key Remapping for scanning

- Go to “Settings” > Select “Remap key & Shortcut”.
- Select function keys P1, P2 or P3.
- Press the “Remap Shortcut” button.
- Press the “”B-Scan”” button.
- Press the scan button to trigger a capture.
- The red laser lights up to assist aiming, and the scan is ready when the beep sounds.

RFID LF HID
Please put the card on the HF/LF HID antenna area

Regulatory information

Operating frequencies Access-ER

EUT type	**Handheld Device**
Brand Name	Gappernic
Model Name	Access- ER
Tx Frequency Elands (Unit: MHz)	GSM 850 : 821 -845
	GSM 1900 :1850 – 1910
	WCDMA Band II : 1893 – 1910
	WCDMA Band IV : 1710 – 1755
	WCDMA Band V : 824 -819
	LIE. Rand 2 : 1850 – 1910
	LIE Band 4 : 1710 – 1755
	LTE Band 5 : 824 ~ 849
	LIE Band 7 : 2503 – 2570
	LTE Rand 17 :704 – 716

	LTE Rand 26 :811 – 849
	LIE Band 41 :2106 – 2690
	WLAN : 2412 ~ 2472, 5180 ~ 5320, 5500 ~ 5700
	Elluecooth : 2402 ..- 2483
	RHD option : 1356 / 0.125

	GSM 850 : TBD
	GSM 1900 : TBD
	WCDMA Band II : TBD
	WCDMA Band IV : TBD
	WCDMA Band V : TBD
	LTE Band 2 : TBD
	LTE Band 4 : TBD
	LTE Band 5 : TBD

Maximum AVG Conducted Power (Unit: dBm)	LTE Band 7 : TBD
	LTE Band 17 : TBD
	LTE Band 26 : TBD
	LTE Band 41 : TBD
	802.11b : TBD
	802.11g : TBD
	802.11n HT20 (2.4GHz) : TBD
	802.11n HT40 (2.4GHz) : TBD
	802.11a : TBD
	802.11n HT20 (5GHz) : TBD
	802.11n HT40 (5GHz) : TBD
	802.11ac VHT80 : TBD
	Bluetooth : TBD

CAUTION
Only use accessories tested and approved by COPPERNIC to ensure compliance with European standards. Operation of the device without regulatory approval is illegal.

Wireless Device Country Approval

Regulatory markings, subject to certification, are applied to the device signifying the radio(s) are approved for use in the European countries under CE coverage.
For 2.4GHz or 5GHz products : Europe includes Austria, Belgium, Bulgaria, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Netherland, Norway, Poland, Portugal, Romania, Slovak Republic, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

Country Roaming

This device incorporates the international roaming feature which will ensure the product operates on the correct channels for the particular country of use.

Ad-Hoc Operation (5GHz Band)

Ad-Hoc operation is limited to Channels 36-48 (5150 – 5250 MHz). Use of this band is restricted to indoor use only, any other use will make the operation of this device illegal.

Federal Communication Commission Interference Statement

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

- This device may not cause harmful interference.
- 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 B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
Please delete this sentence after 6/2, 2014, if EUT follow NEW U-NII rule.
Operations in the 5.15-5.25GHz band are restricted to indoor usage only.

FOR PORTABLE DEVICE USAGE (<20cm from body/SAR needed)

Radiation Exposure Statement: The product comply with the FCC portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

FOR MOBILE DEVICE USAGE (>20cm/low power)

Radiation Exposure Statement: This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FOR COUNTRY CODE SELECTION USAGE (WLAN DEVICES)

Note: The country code selection is for non-US model only and is not available to all US model. Per FCC regulation, all WiFi product marketed in US must fixed to US operation channels only.

Warnings of Use Wireless Devices

Please observe warning notices with regard to the usage of wireless devices.

Potentially Hazardous Atmospheres – Vehicles Use

You are reminded of the need to observe restrictions on the use of radio devices in fuel depots, chemical plants etc. and areas where the air contains chemicals or particles (such as grain, dust, or metal powders) and any other area where you would normally be advised to turn off your vehicle engine.

Safety in Aircraft

Turn off your wireless device whenever you are instructed to do so by airport or airline staff.

Safety in Hospitals

Wireless devices transmit radio frequency energy and may affect medical electrical equipment. Wireless devices should be switched off whenever you are requested to do so in hospitals, clinics or healthcare facilities. These requests are designed to prevent possible interference with sensitive medical equipment.

Safety Information – Europe

This device was tested for typical body-worn operation. Use only COPPERNIC tested and approved accessories to ensure EU compliance.

Laser Devices

Class 2 laser scanners use a lower power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a class 2 laser is not known to be harmful.

CAUTION

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Power Adaptor

Use only an Access-ER approved Power Adaptor with electrical ratings: Output 5VDC, min 2A, with a maximum ambient temperature of at least 45°C. Use of alternative power adaptor will invalidate any approvals given to this device and maybe dangerous.

Battery Information

Use only a COPPERNIC approved batteries.

When devices are stored over six (6) months without use, some irreversible deterioration in overall battery quality may occur. Store devices at half of full charge in a dry, cool place. When storing devices for one year or longer, the charge level of battery should be verified at least once a year and charged to half of full charge.

Battery Safety

1. The area in which the units are charged should be clear of debris and combustible materials or chemicals. Particular care should be taken where the device is charged in a non-commercial environment.
2. Follow battery usage, storage, and charging guidelines found in the user guide.
3. Improper battery use may result in a fire, explosion, or other hazard.
4. To charge the device battery, the battery and charger temperature must be between 0°C~+50°C.
5. Do not use incompatible batteries and chargers. Use of an incompatible battery or charger may present a risk of fire, explosion, leakage, or the hazard.
6. Do not disassemble or open, crush, bend or deform, puncture, or shred the device.
7. Severe impact from dropping any battery-operated device on a hard surface could cause the battery to overheat.
8. Do not short circuit a battery or allow metallic or conductive objects to contact the battery terminals.
9. Do not modify or remanufacture, attempt to insert foreign objects into the battery, immerse or expose to water or other liquids, or expose to fire, explosion, or other hazard.
10. Do not leave or store the equipment in or near areas that might get very hot, such as in a parked vehicle or near a radiator or other heat source. Do not place battery into a microwave oven or dryer.
11. Battery usage by children should be supervised.
12. Please follow local regulations to promptly dispose of used re-chargeable batteries.

13. Do not dispose of batteries in fire.
14. Seek medical advice immediately if a battery has been swallowed. In the event of a battery leak, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with large amounts of water and seek medical advice.

FCC INFORMATION TO USERS

Radiation Exposure Compliance
This product complies with the FCC RF exposure limits for an uncontrolled environment.
FEDERAL COMMUNICATION COMMISSION INTERFERENCE STATEMENT

FCC Statement

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.
15.21 Information to the user.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 15.105 Information for the user.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with theinstructions, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connecting the equipment to a socket on a circuit different from that to which the receiver is connected.
- Contact with the provider or a radio f TV technician for help.

Specific absorption rate (SAR):
This product meets the government's requirements for exposure to radio waves. The guidelines are based on standards developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a margin of safety designed to ensure the safety of all people regardless of their age or health.
The FCC Statement of Exposure to RF and the SAR limit for the United States (FCC) is 1.6 W/kg average for each gram of tissue. This device was tested for typical operations of use on the body, with the back of the product at 10mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a distance of 10mm between the user's body and the back of the product. The use of belt clips, covers and similar accessories must not contain metallic components in their assembly. The use of accessories that do not meet these requirements may not meet FCC RF exposure requirements and should be avoided.
Functioning in the body
This device was tested for typical operations of use in the body. To comply with RF exposure requirements, a minimum separation distance of 10mm must be maintained between the user's body and the telephone, including the antenna. Third-party accessories such as belt clips. covers and similar accessories used with this device should not contain metallic components, accessories that do not meet these RF exposure requirements and should be avoided from use on the body. Use only the supplied antenna or an approved antenna.

IC Caution:

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).
Operation is subject to the following two conditions:

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

SAR Statement:
This product meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. IC RF Exposure Information and Statement the SAR limit of Canada (IC) is 1.6 W/kg averaged over one gram of tissue. Device types: accessER (IC: 8402A-ACERASK) has also been tested against this SAR limit. This device was tested for typical body-worn operations with the back of the handset kept 0mm from the body. To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 0mm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided. Body-worn Operation This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 0mm must be maintained etween the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

RF Specification:

Function	**Operation Frequency**	**Max RF outputpower:**
BLE	2402MHz–2480MHz	-0.7dBm
BT(BR+EDR)	2402MHz–2480MHz	5.49 dBm
WIFI 2.4G 802.11b/g/n(HT20,HT40)	802.11b/g/n(20MHz): 2412~2472MHz; 802.11n(40MHz):2422~2462MHz	16.74 dBm
Wi-Fi5.2G (802.11a/n20/n40/ac20/ac40/ac80)	802.11a/ n20/ac20:5180MHz~5240MHz 802.11 n40/ac40:5190MHz~5230MHz 802. 11ac80:5210MHz	9.65 dBm
5.3G WIFI 802.11a /n(HT20,HT40)	802.11a/ac/n20: 5260~5320MHz; 802.11ac40/n40: 5270~5310MHz; 802.11ac80:5290~5290MHz	9.67 dBm

5.6G WIFI 802.11a/n(HT20,HT40)	802.11a/ac/n20: 5500~5700MHz; 802.11ac40/n40: 5510~5670MHz; 802.11ac80:5530~5610MHz	11.02 dBm
GSM/GPRS/EGPRS 900	TX(Uplink):880M-915MHZ; RX(Downlink):925M-960MHZ	33.08dBm
GSM/GPRS/EGPRS 1800	TX(Uplink):1710M-1785MHZ; RX(Downlink):1805M-1880MHZ	29.74 dBm
WCDMA B1	TX(Uplink):1920-1980MHz; RX(Downlink):2110-2170MHz	23.8 dBm
WCDMA B8	TX(Uplink): 880-915MHz; RX(Downlink):925-960MHz	24.04 dBm
LTE FDD B1	TX(Uplink):1920-1980MHz; RX(Downlink):2110-2170MHz	23.06 dBm
LTE FDD B3	TX(Uplink) :1710-1785MHz; RX(Downlink):1805-1880MHz	22.56dBm
LTE FDD B7	TX(Uplink) :2500-2570MHz; RX(Downlink):2620-2690MHz	23.02 dBm
LTE FDD B8	TX(Uplink): 880MHz to 915 MHz RX(Downlink): 925 MHz to 960 MHz	23.00 dBm
LTE FDD B20	TX(Uplink): 832MHz~862MHz; RX(Downlink): 791MHz~821MHz	23.19 dBm
LTE FDD B28	TX(Uplink): 703 MHz to 736MHz; RX(Downlink): 758 MHz to 791 MHz	23.09 dBm
LTE TDD B38	Uplink & Downlink: 2570 MHz to 2620 MHz	23.56 dBm
NFC	13.56MHz	-11.31dBuA/m@10m
GPS	Rx(Downlink): 1.57542GHz	—

Warning:

1. **CAUTION:** RISK OF EXPLOSION IF BATTERY IS REPLACED BYAN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDINGTO THE INSTRUCTIONS.
2. The product shall only be connected to a USB interface of version USB2.0.
3. Adapter shall be installed near the equipment and shall be easily accessible.
4. Operation temperature:0~40ºC.
5. The plug considered as disconnect device of adapter.
6. SAR: The device complies with RF specifications when the device used at 5mm form your body(SAR limit

2.0 W/Kg for 10-g). Member DASSeparation distance of 0mm(SAR limit 4.0 W/Kg for -g) . The device is in compliance with the requirements.

Restrictions in the 5 GHz band:

According to Article 10 (10) of Directive 2014/53/EU, the packaging shows that this radio equipment will be subject to some restrictions when placed on the market in Belgium (BE), Bulgaria (BG), the Czech Republic (CZ),Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain(ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania(LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria(AT), Poland (PL), Portugal (PT), Romania (RO), Slovenia (SI), Slovakia (SK),Finland (FI), Sweden (SE), Turkey (TR), Norway(NO), Switzerland (CH), Iceland (IS), and Liechtenstein (LI).

ES	LU	RO	CZ	FR
HU	SI	DK	HR	BE
BG	DE	EE	IE	EL
IT	CV	LV	LT	SK
MT	AIL	AT	PL	PT
FI	SE	LI	TR	NO
CH	IS			

EU Declaration of Conformity

We,

Coppernic (20,rue Georges Claude Aix en Provence France 13290) hereby declares that this access-ER HF/LF/BT HID CK is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

According to Article 10(2) of Directive 2014/53/EU, the access-ER can be used in Europe but with restriction.

COPPERNIC

MOBILITY | CONNECTED DATA | ANALYTICS

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Documents / Resources

	COPPERNIC Access-ER-HF Rugged RFID Mobile Terminal [pdf] User Guide XGK-ACERHIDCK, XGKACERHIDCK, Access-ER-HF Rugged RFID Mobile Terminal, Rugged RFID Mobile Terminal, RFID Mobile Terminal, Mobile Terminal, Terminal