

# access<sup>ER</sup> product line



## PHYSICAL CHARACTERISTICS

<b>DIMENSIONS &amp; WEIGHT</b>	HF ASK	210 mm x 79 mm x 17.2/28 mm (LxWxD)   312 grams including battery
	HF ASK RCTIF   CEN/TS	210 mm x 79 mm x 17.2/28 mm (LxWxD)   312 grams including battery
	HF   LF   BT HID-CK	210 mm x 79 mm x 17.2/28 mm (LxWxD)   310 grams including battery
	HF NFC   FAP30	210 mm x 79 mm x 17.2/28 mm (LxWxD)   317 grams including battery
	HF   LF   BT HID-RC   FAP30	210 mm x 79 mm x 17.2/28 mm (LxWxD)   310 grams including battery
	UHF CAEN	210 mm x 79 mm x 17.2/32 mm (LxWxD)   320 grams including battery
<b>SCREEN &amp; TOUCH PANEL</b>	5.0" HD screen (1280x720)   Capacitive touch panel   Touch Panel Glass: Corning Gorilla Glass 3	
<b>CAMERA</b>	Front camera: 5MP   Rear camera: 13MP Autofocus	
<b>EXTENSION, SENSORS &amp; COMMUNICATION PORTS</b>	1 Micro SD slot   2 Nano SIM/USIM slots (ISO7816)   1 USB 3.0 Type C   2 Pogo Pins for Charging   Speaker   Microphone   Receiver   Power Key   Volume Key Up & Down   3 Programmable Keys   Gyroscope   e-Compass   Light Sensor   Accelerator	
<b>BATTERY</b>	3.85V   4000 mAh exchangeable battery   Support QC3.0 Quick Charge Battery Life: to 8-12 hrs or more (Typical) depending on use case	

## PERFORMANCE CHARACTERISTICS

<b>PROCESSOR</b>	Octa Core @ 2.2 GHz   Qualcomm SDM660
<b>MEMORY</b>	4 GB RAM   64 GB Flash   Up to 64 GB via the Micro SD Slot
<b>OPERATING SYSTEM</b>	Android 10

## USER ENVIRONMENT

<b>IP SEALING</b>	IP67
<b>TEMPERATURES &amp; HUMIDITY</b>	Operating Temperature: Battery in charging mode > 0°C to +45°C   Battery in discharging mode > -20°C to +50°C Storage Temperature: -20°C to +50°C   Humidity: 5% to 85% (non-condensing)
<b>DROP SPECIFICATION</b>	Multiple drops from 1.2m   Compliant MIL-STD-810G

## WIRELESS COMMUNICATIONS

<b>BLUETOOTH</b>	BT 5.1
<b>WLAN</b>	WiFi (2.4 GHz - 5 GHz)   802.11 a/b/g/n/ac
<b>WWAN</b>	GSM   GPRS   EDGE supported frequency bands: 850 - 900 - 1800 - 1900 MHz 3G supported frequency bands: UMTS B1 (2100) - B2 (1900) - B4 (1700) - B5 (850) - B8 (900) 4G supported frequency bands: LTE B1(2100) - B2 (1900) - B3 (1800) - B4 (1700) B5 (850) - B7 (2600) - B8 (900) - B17 (700) - B20 (800) - B26 (850) - B28 (700) - B38 (2600) - B39 (1900) - B41 (2500) - B19 (800)
<b>INTEGRATED GPS</b>	GPS   A-GPS   GLONASS   BeiDou   GALILEO

## INTEGRATED RFID & IDENTIFICATION MODULES

<b>SECURE ELEMENT</b>	P73N2MP (NFC IC)   SIM/USIM socket (SWP IF with NFC IC + ISO7816 IF with CPU)
<b>MODULE</b>	Multiple fully integrated module options (details on reverse side) <ul style="list-style-type: none"> <li>• HF ASK Module (PARAGON ID UCM108)</li> <li>• HF ASK RCTIF   CEN/TS Module(PARAGON ID UCM108) <ul style="list-style-type: none"> <li>• RCTIF V5.0   CEN/TS 1794</li> </ul> </li> <li>• HF   LF   BT HID-CK Module (OMNIKEY 5127 CK-Mini)</li> <li>• HF NFC   FAP30 Module <ul style="list-style-type: none"> <li>• Integrated Biometrics FAP30 'Danno' Fingerprint Module</li> <li>• NFC : NXP IC on board (NQ330 : PN553 + P73N2M0) Compliant with ISO14443 A/B and ISO15693</li> </ul> </li> <li>• HF   LF   BT HID-RC   FAP30 Module (OMNIKEY 5127CK Reader Core) - OPTIONAL <ul style="list-style-type: none"> <li>• Integrated Biometrics FAP30 'Danno' Fingerprint Module</li> </ul> </li> <li>• UHF CAEN RFID Module (Lepton3 RAIN RFID)</li> </ul>

## BARCODE READER

<b>IMAGER</b>	Imager 2D Honeywell N6603
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## REGULATIONS

<b>CERTIFICATION</b>	EU : certification CE   US: certification FCC   Canada : ISED /IC
<b>HS-CODE</b>	8471300000



## HF ASK MODULE (PARAGON ID UCM108)

**13.56 MHz | ISO 14443 A/B/B' | Felica | ISO18092 (NFC)**

Supports up to 2 SAMs: ISO 7816 A,B,C, T=0, T=1, with PPS up to 1.2 Mb/s

HSP Innovatron Protocol | Compliant with the following cards:

- CTS256B | CTS512 | CTS512B | CTM512B | ST SR Family | THTF1064 | ST SRI | ST SRIX | ST19 | ST23 | ST31 | ST25 (Excepted ST25TV)
- Calypso Rev 1 | Rev 2 | Rev 3 : CD97 | CT2000 | CD-light | GTML | GTML2 | TanGO | CD21 and/or CDS3
- MIFARE® 1K | 4K | Ultra Light (& EV1, C) | Mifare Plus Class3 | SmartMX | DESFire® 2K | 4K | 8K
- NXP | Atmel | Infineon | Sony Felica®
- STM ICAO | Java Card® | ITSO
- Gemalto Celego G1

Access Control

## HF ASK RCTIF | CEN/TS MODULE (PARAGON ID UCM108)

**13.56 MHz | ISO 14443 A/B/B' | Felica | ISO18092 (NFC)**

RCTIF V5.0 | CEN/TS 1794

Supports up to 2 SAMs: ISO 7816 A,B,C, T=0, T=1, with PPS up to 1.2 Mb/s

HSP Innovatron Protocol | Compliant with the following cards:

- CTS256B | CTS512 | CTS512B | CTM512B | ST SR Family | THTF1064 | ST SRI | ST SRIX | ST19 | ST23 | ST31 | ST25 (Excepted ST25TV)
- Calypso Rev 1 | Rev 2 | Rev 3 : CD97 | CT2000 | CD-light | GTML | GTML2 | TanGO | CD21 and/or CDS3
- MIFARE® 1K | 4K | Ultra Light (& EV1, C) | Mifare Plus Class3 | SmartMX | DESFire® 2K | 4K | 8K
- NXP | Atmel | Infineon | Sony Felica®
- STM ICAO | Java Card® | ITSO
- Gemalto Celego G1

Public Transport

## HF | LF | BT HID-CK MODULE (OMNIKEY 5127 CK-Mini)

- iCLASS, iCLASS SE/SR, iCLASS Seos
- MIFARE Classic, MIFARE DESFire 0.6, MIFARE DESFire EV1/EV2
- MIFARE Ultralight C, MIFARE Ultralight
- FeliCa (Idm) CEPAS (CAN)
- ISO 11443A/B, ISO15693
- NFC Tag (1,2,3,4,5)
- T=CL, SmartMx, Student ID in Apple Wallet
- HID Prox, Indala Prox, EM Prox, EM4100/4102/4200/4305/4450, AWID Prox
- Hitag 1.2.3, ASK, PSK, FSK

Access Control

## HF | NFC | FAP30 MODULE

**INTEGRATED BIOMETRICS FAP30 'DANNO' FINGERPRINT MODULE**

- FBI | Imager Certifications - PIV 071006 - FIPS201 - FAP30 | Certified to Mobile ID requirements
- Speed - Min frame rate > 10fps
- Resolution - 500ppi | Grayscale : 256 grayscale dynamic range
- Image Size : 400x500 pixels
- Supported Image Formats : RAW - JPEG2000 - BMP - PNG - WSQ (FBI-approved)
- Quality Scoring : NFIQ v1 supported
- Platen Size : 21.52 mm x 26.6 mm / 0.85" x 1.05"
- Sensing Area : 20.32 mm x 25.4 mm / 0.8" x 1.0"

Access Control

Mobile Identity

**NFC MODULE**

- NXP IC on board (NQ330 : PN553 + P73N2M0)
- Compliant with ISO14443 A/B and ISO15693

## HF | LF | BT HID-RC | FAP30 MODULE (OMNIKEY 5127CK Reader Core)

**READER CORE 5127CK USED WITH FINGERPRINT READER OPTIONS**

- iCLASS, iCLASS SE/SR, iCLASS Seos
- MIFARE Classic, MIFARE DESFire 0.6, MIFARE DESFire EV1/EV2
- MIFARE Ultralight C, MIFARE Ultralight
- FeliCa (Idm) CEPAS (CAN)
- ISO 11443A/B, ISO15693
- NFC Tag (1,2,3,4,5)
- T=CL, SmartMx, Student ID in Apple Wallet
- HID Prox, Indala Prox, EM Prox, EM4100/4102/4200/4305/4450, AWID Prox
- Hitag 1.2.3, ASK, PSK, FSK

Access Control

## CAEN RFID LEPTON3 RAIN RFID MODULE

- Frequency Range : 865.600-867.600 MHz (ETSI EN 302 208 v.3.3.1) 902-928 MHz (FCC part 15.247)
- RF Power : configurable from 10dBm to 25 dBm (from 10mW to 316mW) conducted power
- RX Sensitivity : -72 dBm - 10% per, assuming 20dB antenna RL @ 25 dBm output
- Number of channels : 4 channels (compliant to ETSI EN 302208 v.3.3.1) | 50 hopping channels (compliant to FCC part 15.247)
- Standard Compliance : EPC Class 1 Gen 2 - ISO 18000-63

Asset Tracking