

TECHNICAL SPECIFICATIONS

Fusion-ER product line



PHYSICAL CHARACTERISTICS | FUSION

DIMENSIONS & WEIGHT	FUSION ONLY FUSION + LEATHER CASE FUSION + LEATHER WALLET*	164.15 mm x 75.5mm x 8.32 mm (LxWxD) 202.5 grams 240 mm x 95 mm x 25 mm (LxWxD) 370 grams including FUSION 232 mm x 91 mm x 25 mm (LxWxD) 395 grams including FUSION
SCREEN	6.56 in Aspect ratio: 20:9 90Hz refresh rate Peak brightness: 600 nits Resolution: HD+ (720 x 1612) 9H tempered glass screen protector - 2.5D - 0.3 mm thickness	
CAMERA	Rear: 108 MP with Auto Focus & LED flash + 2 MP depth sensor Front: 50 MP fixed focus Smart EIS 3x lossless digital zoom Night mode AI HDR	
COMMUNICATION PORTS	USB Type-C (USB 2.0) Hybrid slot: 3-in-2 uSIM / uSD eSIM support 6-pin Pogo Pins	
SENSORS	Accelerometer (G-sensor) Ambient light sensor Proximity sensor Gyroscope Compass Side-mounted fingerprint sensor	
AUDIO	3.5 mm headphone jack Low-latency Bluetooth audio Dual microphones	
BATTERY	5000 mAh >80% capacity after 800 charge cycles 33W PD/QC fast charging	

PERFORMANCE CHARACTERISTICS | FUSION

PROCESSOR	Qualcomm SM4450 (Snapdragon® 4 Gen 2) Octa-core (2x2.2 GHz Cortex-A78, 6x2.0 GHz Cortex-A55)
MEMORY	6 GB or 8 GB RAM 128 GB or 256 GB internal storage MicroSD support up to 1 TB
OPERATING SYSTEM	Android 15 AER with up to 2 years of operating system updates Up to 5 years of security updates (2 years monthly, then 3 years quarterly)



USER ENVIRONMENT | FUSION

DUST & WATER	IP54
TEMPERATURES	Operating temperature: -15°C to 55°C Storage temperature: -30°C to 70°C
REPAIRABILITY	Score: 8.3 Gen 2 repairability with easy replacement of the display, rear cover, battery, and charging port

WIRELESS COMMUNICATIONS | FUSION

BLUETOOTH	BT 5.1
WLAN	802.11 a/b/g/n/ac/ax-ready
WWAN (5G)	GSM: 850, 900, 1800, 1900 UMTS-1, 2, 4, 5, 8 LTE: 1, 3, 5, 7, 8, 20, 28, 32, 38, 40, 41 (full)PC2: B/n41 (full), n78 5G NR sub6 FDD: n20, n28, n3, n1, n5, n7, n8 5G NR sub6 TDD: n26, n77, n78, n38 (PC3), n41, n40 (full) SRS: n41, n77, n78 1T4R 4*4MIMO: 1, 3, 7, 38, 40, 41, n78 Supports NSA + SA
INTEGRATED GPS	GPS A-GPS GLONASS BeiDou GALILEO
NFC	ISO14443 A/B ISO15693

INTEGRATED RFID & BIOMETRIC MODULES | CASE OR WALLET

MODULE	Multiple fully integrated module options (see reverse side for details) - LF HF BLE module OMNIKEY 5127 CK-Mini - HF BLUETOOTH module STid MS2S - LF HF module ELATEC MULTITECH 3 LEGIC M LF HF - LF HF BLE module ELATEC MULTITECH 3PLUS M - HF module SPRINGCARD M519-SUV - HF module SPRINGCARD M519-SAM(U) - FAP30 module INTEGRATED BIOMETRICS DANNO - FAP30 module HID NOMAD30
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REGULATIONS

CERTIFICATION	EU : certification CE Other countries available on request
MADE IN	France

* available on request

DETAILED RFID & BIOMETRIC MODULES - SEE REVERSE SIDE

Fusion-ER product line



HID 5127 CK-MINI - RFID MODULE - LF | HF | BLE

FUSION-ER-040001

13.56 MHz | ISO14443 A/B | ISO15693

- iCLASS, iCLASS SE/SR, iCLASS Seos
- MIFARE Classic, MIFARE DESFire 0.6, MIFARE DESFire EV1/EV2, MIFARE Ultralight C, MIFARE Ultralight
- CEPAS (CAN)
- NFC Tag (1,2,3,4,5)
- T=CL, SmartMx, Student ID in Apple Wallet

125 KHz

- HID Prox, Indala Prox, EM Prox, EM4100/4102/4200/4305/4450, AWID Prox
- Hitag 1.2.3, ASK, PSK, FSK

STid MS2S - RFID MODULE - HF | BLUETOOTH

FUSION-ER-080001

13.56 MHz | ISO14443 A/B | ISO18092 (NFC)

- MIFARE Ultralight & Ultralight C, MIFARE Classic & Classic EV1, MIFARE Plus (S/X) & Plus EV1, MIFARE DESFire 256, EV1 & EV2
- Health cards CPS3, NFC (HCE)
- PicoPass (CSN only)
- iCLASS (CSN only)
- Ministerial cards (Agent, Secure Military Identity Card, ...)
- Civil aviation (STITCH)
- STid Mobile ID (NFC and Bluetooth virtual badge), Orange Pack ID

ELATEC* MULTITECH 3 LEGIC M LF HF - RFID MODULE - LF | HF

FUSION-ER-020001

13.56 MHz | ISO14443 A/B | ISO18092 (NFC) | ISO15693

- LEGIC ADVANT, NTAG2xx, NXP MIFARE Classic, NXP MIFARE Classic EV1, NXP MIFARE DESFire EV1/EV2, NXP MIFARE DESFire EV3 (EV1 emulation) NXP MIFARE DESFire Light, NXP MIFARE Mini, NXP MIFARE Plus S, NXP MIFARE Plus X, NXP MIFARE Smart MX, NXP MIFARE Ultralight, NXP MIFARE Ultralight C, NXP MIFARE Ultralight EV1, SLE44R35, SLE66Rxx (my d-move), Topaz
- Calypso, CEPAS
- LEGIC ADVANT, EM4x3, EM4x35, ICODE SLI, M24LR16/64, MB89R118/119, SRF55Vxx (my d-vicinity), Tag-it
- NFC Tag (2,3,4,5)
- LEAF : AV2 only, requires one free SAM slot for MIFARE SAM AV2 card
- LEGIC Prime

125 KHz

- AWID, Cardax, CASI-RUSCO, Deister, EM4050, EM4100, EM4102, EM4150, EM4200, EM4305, EM4450, EM4550, Hitag 1/2/S, ICT, IDTECK, ISONAS, Keri, Miro, Nedap, Pyramid, Q5, T5557, T5567, T5577, TITAN (EM4050), UltraProx, UNIQUE, ZODIAC

ELATEC* MULTITECH 3 PLUS M - RFID MODULE - LF | HF | BLE

FUSION-ER-010001

13.56 MHz | ISO14443 A/B | ISO18092 (NFC) | ISO15693

- NTAG2xx, NXP MIFARE Classic, NXP MIFARE Classic EV1, NXP MIFARE DESFire EV1/EV2, NXP MIFARE DESFire EV3 (EV1 emulation), NXP MIFARE DESFire Light, NXP MIFARE Mini, NXP MIFARE Plus S, NXP MIFARE Plus X, NXP MIFARE Smart MX, NXP MIFARE Ultralight, NXP MIFARE Ultralight C, NXP MIFARE Ultralight EV1, SLE44R35, SLE66Rxx (my d-move), Topaz
- Calypso, Calypso Innovatron protocol, CEPAS, CTS, SRI4K, SRI512, SRI4K, SRT512
- EM4x33, EM4x35, ICODE SLI, M24LR16/64, MB89R118/119, SRF55Vxx (my d-vicinity), Tag-it
- NFC Tag (1,2,3,4,5)
- LEAF : AV2 only, requires one free SAM slot for MIFARE SAM AV2 card

125 KHz

- AWID, Cardax, CASI-RUSCO, Deister, EM4050, EM4100, EM4102, EM4150, EM4200, EM4305, EM4450, EM4550, Hitag 1/2/S, ICT, IDTECK, ISONAS, Keri, Miro, Nedap, Pyramid, Q5, T5557, T5567, T5577, TITAN (EM4050), UltraProx, UNIQUE, ZODIAC

134.2 KHz | ISO11784 | ISO11785

- Cotag, FDX-B, EM4105, PAC, TIRIS, HDX, UltraProx

SPRINGCARD M519-SUV - RFID MODULE - HF

FUSION-ER-050001

SPRINGCARD M519-SAM(U) - RFID MODULE - HF with 1 SAM slot

FUSION-ER-060001

13.56 MHz | ISO14443 A/B/B' | ISO18092 (NFC) | ISO15693 | ISO18000-3M1 | ISO18000-3M3 | ISO21481

- NFC Tag (1,2,3,4,5)
- MIFARE Classic with CRYPTO1, MIFARE Plus, MIFARE Ultralight, MIFARE DESFire
- All cards in NXP NTAG & ICODE families
- Calypso, Calypso Innovatron protocol
- STMicroelectronics SR & LR
- Infineon SLE44, SLE66, SRF55
- Texas Instrument Tag-it

INTEGRATED BIOMETRICS - DANNO FAP30 MODULE - BIOMETRIC SENSOR

FUSION-ER-100001

- FBI / Imager Certifications: PIV 071006, FIPS201, FAP30 (Certified for Mobile Identification Requirements)
- Minimum capture rate: >10 FPS | Resolution: 500 ppi | Gray levels: 256-level dynamic range | Image size: 400 × 500 pixels
- Supported image formats: RAW, JPEG2000, BMP, PNG, WSQ (FBI-approved) | Quality evaluation: NFIQ v1 supported
- Platen size: 21.52 mm × 26.6 mm | Sensing area: 20.32 mm × 25.4 mm

HID - MODULE FAP 30 MODULE NOMAD30 - BIOMETRIC SENSOR

FUSION-ER-200001

- FBI / Certifications: PIV 071006 – FAP30
- Capture rate: 12 FPS | Gray levels: 8-bit
- Image resolution: 400 × 500 pixels | 500 ppi | Module size: 38.10 mm × 43.08 mm × 7.50 mm | Sensing area: 20.32 mm × 25.4 mm