

BORN TO BE RUGGED AND ROBUST



Leading A-Share Listed
Company in Rugged Terminals
Stock Code: 001314



Rugged Mobile Computer Product Catalog



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Emdoor Information Co., Ltd.



CONTENTS

● About Emdoor Info	03
Service Concept	03
Company Profile	04
Business Model	05
Company Honors	06
Business Capacity	07
Product Guarantee	08
Cooperative Partners	10
After-sales Support	11
Product Summary	12
● Rugged Handheld	13
● Rugged Tablet	18
● Rugged Notebook	29
● Vehicle PC	34
● Industrial Panel PC	38
● Industry Applications	42
● Application Cases	43
● Contact Us	46

**ABOUT
Emdoor Info**



COMPANY Service Concept

As a national high-tech enterprise, Emdoor Information is a leading provider of industrial computer solutions in China and a strategic partner of Microsoft and Intel. Additionally, we maintain close cooperation with Qualcomm, MediaTek, Google, and other top international IT vendors. Through our own precise control of the market and independent innovation, we can bring the most advanced technology to global users and cooperate with customers for a win-win situation.

COMPANY PROFILE

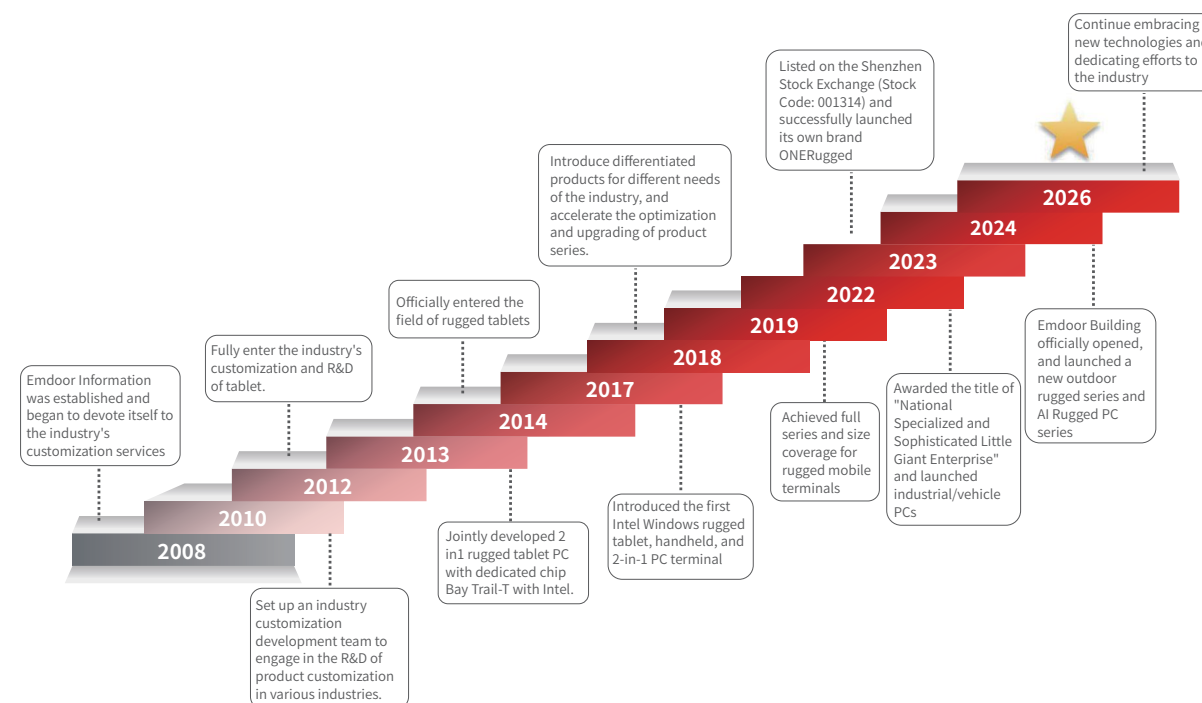
Emdoor Information (001314.SZ), established in 2008, includes subsidiaries like Emdoor Digital, Emdoor VR, and Emdoor Research Institute. Our diverse business covers consumer mobile devices, industry terminals, AI hardware, and VR/AR/MR, making advanced technology more accessible. With over 1,500 employees, we serve 1,600+ industry clients across 100+ countries and regions.

As a leading provider of rugged mobile computing solutions, Emdoor Information specializes in rugged handhelds, tablets, laptops, industrial terminals and outdoor terminals. We focus on practical value and user experience, offering products from 4-inch to 21.5-inch rugged devices for general applications, as well as custom solutions for specialized needs. Our innovations help industries reduce costs, boost efficiency, and drive digital transformation.

Innovation drives us. Over 40% of our team is dedicated to R&D, holding 800+ patents and software copyrights. Our 2,100 square meter lab, equipped with nearly 200 advanced instruments, fosters continuous innovation. We've developed over 200 rugged products tailored to customer needs.

Emdoor Information is committed to high-quality manufacturing. Our 18,000 square meter facility produces over 1 million units annually. Our products meet international standards, ensuring reliability and supporting the rugged industry's growth.

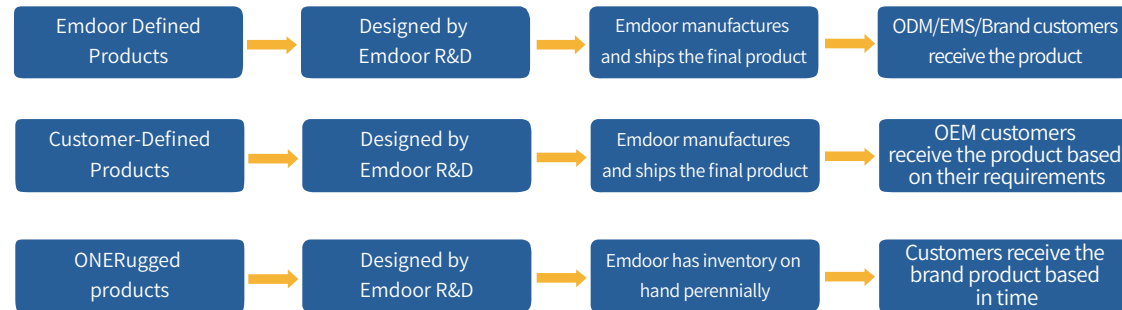
Looking forward, Emdoor Information will continue to innovate, collaborate, and grow alongside our clients and partners, driving industry progress and enhancing value through rugged computing.



Business model

We deliver the most competitive rugged products and solutions, and offer three distinct business models:

Business process:



Advantages of customized services

1. Product quality guarantee-verified by mass production of over 100,000 pcs consumer tablets.
2. Supported by high-quality upstream and downstream suppliers and original factories, provide more technical and cost-effective products to customers.
3. With years of industry accumulation, generalized and differentiated design experience can meet the needs of all walks of life.

COMPANY HONORS

- Emdoor has been recognized as a "National High-Tech Enterprise" for many years.
- Since 2019, Emdoor Information has been rated as "Guangdong Province Contract-Abiding and Creditworthy Enterprise" for many consecutive years.
- In 2022, Emdoor Information was rated as "National Little Giant Enterprise".
- In 2023, Emdoor Information won the title of "High-Quality Development Leading Enterprise".
- In 2024, Emdoor Information won the title of "Top 100 Industry Leaders in Shenzhen".
- In 2025, Emdoor Information won the title of "2025 Top 500 Enterprises in Shenzhen".

18 Years of Quality Excellence

National High-tech Enterprise

National Specialized and Sophisticated "Little Giant" Enterprise

Leading Enterprise in High-Quality Development

Outstanding Value Listed Company

Excellence in Integrity and Compliance Awards

Guangdong Provincial Engineering and Technology Research Center of High Reliable Rugged Mobile Computing Design

2025 Top 500 Enterprises in Shenzhen





BUSINESS CAPACITY

In addition to continuous innovation, high-quality production and manufacturing are also our persistence. Our manufacturing workshop covers a large area, and the dust-free level of the workshop has reached ISO 2 level, and has obtained ISO 9001:2015 quality management system certification. In addition, our products have obtained many domestic and foreign certifications such as CCC of China, CE/ROHS/REACH of Europe, FCC of US, IC of Canada , KC of South Korea and so on. We also have many reliability certifications such as MIL-STD-810H, IP rating, and explosion-proof.



PRODUCT GUARANTEE

We are an innovation-driven enterprise. In our laboratory the number of various professional laboratory equipment is over 200 sets. R&D team account for 40% of the company's total number. With more than 10 years of experience accumulation, we have designed and developed more than 200 rugged mobile computer products based on customer and market needs. What's more, we have won a lot of awards such as "Microsoft IDH of the Year", "Intel Innovation Award", "Intel Million Shipment Award", "China Core Innovative Application Design Award", and "American Industrial Design Excellence Award". In addition, as of 2026, we hold over 800 patents and software copyrights worldwide.



Win-Win Cooperation



COOPERATIVE PARTNERS



AFTER-SALES SUPPORT

24/7 Care Line



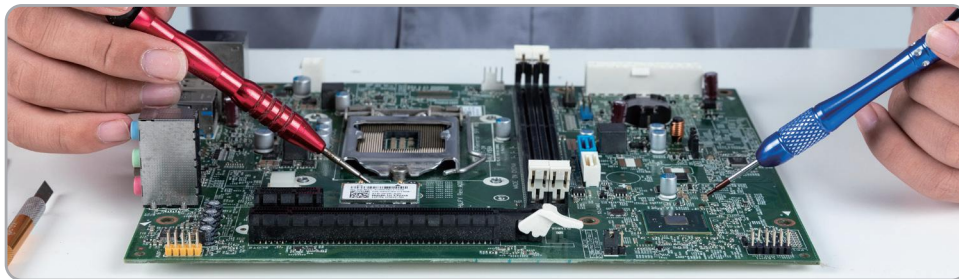
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Online Service



www.emdoorrugged.com provides downloads of product specifications and online customer service at any time.

Repair Service



1. Before sending for repair, please back up your personal data in advance. Data may be lost during the repair process. Emdoor Information is not responsible for data loss due to repairs.
2. Products must be professionally inspected by the Emdoor Information Authorized Service Center, and the corresponding maintenance will be implemented after the fault is confirmed. For products tested without failure, they will be returned as they are.
3. If the product does not meet the warranty conditions, a reasonable maintenance fee will be charged for additional maintenance services.
4. After-sales E-mail address: support.info@emdoor.com

Product Summary					
	Model	Size	CPU	OS	IP Grade
Rugged Handheld	T40	4"	ARM Octa-Core	Android 11	IP65
	T50C	5"	ARM Octa-Core	Android 15	IP65
	R51	5"	RK3568	Android12	IP65
	H68T	6.56"	ARM Octa-Core	Android 14	IP68
	I61J	6.5"	Intel Jasper Lake Quad-Core	Windows 10/11	IP65
Rugged Tablet	T81X	8"	ARM Octa-Core	Android 14/12	IP65
	T86X	8"	ARM Octa-Core	Android 14/12	IP67
	I87J/T87X	8"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 11/Android 14,12	IP65
	T89/Q89	8"	ARM Octa-Core	Android 14/Windows 11	IP65
	I10J/I10A	10.1"	Intel Jasper Lake Quad-Core / Intel Alder Lake	Windows 11	IP65
	Q115M/T11X	10.1"	ARM Octa-Core	Android 11,12,14	IP65
	I16J/R16	10.1"	Intel Jasper Lake Quad-Core / RK3588	Windows 11,10/Android 13	IP65
	I17J/I17J(EX)/T17X/T17X (RTK)	10.1"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 11,10/Android12,14	IP65
	T19/Q19/IS19N	10.1"	ARM Octa-Core / Intel Twin Lake	Android 14/Windows 11	IP65
	I20J/I20A	12.2"	Intel Jasper Lake/Intel Alder Lake	Windows 11/Windows 10	IP65
	I14M/I14A	14"	Intel Core™ Ultra/Alder Lake i5/i7	Windows 11	IP65
Rugged Notebook	I22J/Q225MP	12.2"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 11/Android 14	IP65
	X14M/X14A	14"	Intel Core™ Ultra/Alder Lake i5/i7	Windows 11	IP65
	X15M/X15A	15.6"	Intel Core™ Ultra/Alder Lake i5/i7	Windows 11	IP65
	A14	14"	AMD Ryzen™ AI 7 350	Windows 11	IP65
	A15	15.6"	AMD Ryzen™ AI Max+ 395	Windows 11	IP65
Vehicle PC	V80J/V80T	8"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 10/Android 12	IP65
	V82T	8"	ARM Octa-Core	Android 14	IP65
	V10J/V10T	10.1"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 11/Android 12	IP65
	V12R	10.1"	RK3568	Android 12+ Linux	IP65
Industrial Panel PC	P10A/P15A/P21A	10.1"-21.5"	Alder Lake i5/i7	Windows 11	IP65 Front Panel
	P10J/P15J/P17J/P18J/P21J	10.1"-21.5"	Intel Celeron	Windows 11	IP65 Front Panel
	P10R/P15R/P17R/P18R/P21R	10.1"-21.5"	RK3568	Android 12	IP65 Front Panel
	D10R	10.1"	RK3568	Android 12	IP65 Front Panel

Product specifications, pictures and other information are for reference only. The appearance is subject to the material object. This instruction is subject to change without notice.



Specification		
Basic Parameter	Dimension	162.4 x 72.8 x 19.4mm
	Weight	250 g
	Device Color	Black
	LCD	4" IPS 16:9, 400*800, 300 nits
	Touch Panel	5 point capacitive, G+FF, Corning gorilla glass
	Camera	Rear 13.0MP, Automatic focusing, PDAF support
	I/O	USB Type-C x 1, TF Card x 1 max: 128G, SIM Card x 1 (nano SIM cards x 2 or nano SIM card x 1 + TF card x 1), POGO PIN1 2pin x 1, POGO PIN2 6pin x 1
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/2A
	Capacity	3.8V/4500mAh
	Type	External removable lithium ion battery
Communication	Endurance	16hrs
	GNSS	Support GPS, Glonass, beidou(G+G+B)
	WIFI	2.4G+5G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT 5.0 LE, Transmission distance: 10m
	4G	GSM: B2/B3/B5/B8 WCDMA: B1/B2/B5/B8 TDS: B34/B39 FDD: B1/B2/B3/B4/B5/B7/B8/B13/B17/B20/B28AB TDD: B38/B39/B40/B41
	NFC	Support, 13.56MHz, Support ISO/IEC 14443A/B15693/18092/mifare protocols Card reading distance: 4cm
	Reliability	Operate Temperature -10 °C ~ 50 °C Store Temperature -20 °C ~ 60 °C Humidity 95%(non-condensing) IP Grade IP65
2D	Support Optical resolution: 5mil/scan speed: 50 times/s	

Product Features:

- Support Android 11
- Support NFC
- Optional 2D
- Support GPS, Beidou, Glonass
- IP65 Grade
- Corning gorilla glass

Processor Solution:

Model	Performance Parameter
EM-T40	ARM OCTA Core CPU Android 11 4GB RAM 64GB ROM

Accessories:



Docking Charger



Hand Clip holder



Specification		
Basic Parameter	Dimension	157.4 x 74.6 x 24.2mm
	Weight	260 g
	Device Color	Black
	LCD	5" IPS 16:9, 720*1280, 350 nits
	Touch Panel	5-point capacitive touch screen
	Camera	5.0MP front, PDAF 13.0MP rear, flashlight
	I/O	USB 2.0 (Type-C) x1 3.5mm audio jack x1 SIM card x1 TF card x1 (Max: 128GB) Pogo pin (charge)
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/2A
	Capacity	3.8V/4000mAh
	Type	Removable polymer lithium battery
Communication	Endurance	8.2hrs
	GNSS	GPS, Glonass, Beidou(G+G+B)
	WIFI	Wi-Fi 5 (802.11 ac)
	Bluetooth	BT 5.0 LE, Transmission distance: 10m
	2G/3G/4G (Optional)	4G LTE LTE-FDD(B1/2/3/4/5/7/8/13/17/20/28A/28B) LTE-TDD(B38/39/40/41) WCDMA(B1/2/5/8) GSM(B2/3/5/8)
	NFC	Built-in, 13.56MHz, Support ISO/IEC 14443A/B15693/18092/mifare protocols Card reading distance: 4cm
	Reliability	Operate Temperature -10 °C ~ 50 °C Store Temperature -20 °C ~ 60 °C Humidity 95%(non-condensing) IP Grade IP65
2D	Support Optical resolution: 5mil/ scan speed: 50 times/s	

Product Features:

- ARM processor with Android 15
- Dual cameras & a barcode scanner
- Wi-Fi 5, 4G LTE, BT 5.0, and NFC
- Multi-GNSS for precise positioning
- 4,000mAh removable battery
- IP65 protection with custom keys

Processor Solution:

Model	Performance Parameter
EM-T50C	ARM Octa-Core CPU Android 15 4GB RAM 128GB (64GB) ROM

Accessories:



Adapter



Cable



Lanyard



Docking Charger



Vehicle Mount



Scanning Trigger



Specification		
Basic Parameter	Dimension	147.7 x 74 x 19mm
	Weight	220 g
	Device Color	Black
	LCD	5" IPS 16:9, 720*1280, 330nits
	Touch Panel	5 point capacitive, Corning gorilla glass
	Camera	Rear 8.0MP
I/O	I/O	Type C 2.0 x1 (Charging and data transmission) 3.5mm Standard Earphone Jack x1 TF Card *1, Max: 512GB POGO PIN 2pin *1 (Charging Base)
	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/2A
	Capacity	3.85V/4000mAh
Battery	Type	Built-in Lithium-ion polymer battery
	Endurance	About 7 hrs
Communication	GNSS	GPS+Beidou
	WIFI	2.4G+5G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT5.0 (BLE) Transmission distance: 10m
Reliability	Operate Temperature	-10 °C ~ 55 °C
	Store Temperature	-20 °C ~ 60 °C
	Humidity	95%(non-condensing)
	IP Grade	IP65
2D	Support	Optical resolution: 3mil/ scan speed: 75 times/s

Product Features:

- Support Android 12
- Rich optional barcode scanners
- Support GNSS
- IP65 Grade
- Corning gorilla glass
- Various accessories are available

Processor Solution:

Model	Performance Parameter
EM-R51	RK3568 Android 12.0 4GB RAM 64GB ROM

Accessories:



Hand-strap



Back Clip Battery



Docking Charger



Multiple Charging Dock



Specification		
Basic Parameter	Dimension	170.2 x 80.7 x 14mm
	Weight	311g
	Device Color	Black
	LCD	6.56 inch IPS 20:9, 720*1612, 670 nits
	Touch Panel	5-5-point capacitive screen, G+G
	Camera	Front 32MP, Rear 48MP Rear Secondary Camera 8MP
I/O	I/O	Type-C x 1 SIM card x1 / TF card x1 Pogo Pin x 1
	Power	33W Fast Charger Adapter
	Capacity	3.85V/5800mAh
Battery	Type	Built-in Polymer Lithium-ion Battery
	Endurance	17hrs
Communication	GNSS	GPS/Beidou/Galileo/GLONASS
	WIFI	Frequency 2.4G+5.0G Dual-band WIFI, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT5.1
	4G	GSM(B2/3/5/8)+WCDMA(B1/2/4/5/8)+ TDD(B34/38/39/40/41)+FDD(B1/2/3/4/5/7/8/12/13/17/ 18/19/20/25/26/28A/28B/30/66)
Reliability	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
	IP Grade	IP68
Data Acquisition	2D	Optical resolution: 5mil, scan speed: 50 times/s
	NFC	Supports ISO18092, ISO14443 A/B, ISO15693 protocols, Mifare compliance, Card reading distance from 0 to 4 cm, Frequency:13.56MHz
	Fingerprint	Power On/Off & Fingerprint 2-in-1

Product Features:

- Helio G99 octa-core CPU with the latest Android 14 OS
- 6.56" incell screen, supports wet hand and glove touch
- Front 32MP Ultra HD lens, 48MP Samsung Main Camera
- Professional 1D/2D scanning engine, reading distance up to 10 meters;
- 5800mAh battery, supports reverse charging mode
- Powerful speakers with Smart PA technology, perfect for outdoor use;
- IP68 Rating, drop resistance up to 1.5 meters

Processor Solution:

Model	Performance Parameter
EM-H68T	ARM OCTA Core CPU Android 14/ GMS 8GB RAM 128GB

Accessories:



Hand-strap



Tempered Glass Film



Docking Charger



Full-body shockproof mount



Half-body shockproof mount



Specification		
Basic Parameter	Dimension	183.1 x 88.6 x 24.1mm
	Weight	470g
	Device Color	Black
	LCD	6.5 inch IPS 20:9, 1600x720, 400nits
	Touch Panel	10 point G+F+F capacitive touch screen Corning® Gorilla® Glass
	Camera	Front 5.0MP Rear 8.0MP automatic focusing
	I/O	TYPE-C 2.0 x1 OTG, Standard USB-A Port/Data Transmission (3.0) Nano SIM x1, Micro SD card x1
	Power	PD Fast Charger Adapter
Battery	Capacity	7.4V/4000mAh
	Type	Li_polyment, removeable battery
	Endurance	6hrs
Communication	GNSS	GPS+Glonass
	WIFI	2.4G+5.8G, Wi-Fi 802.11 (a/b/g/n/ac)
	Bluetooth	BT5.0
	2G/3G/4G	LTE FDD: B1/B3/B7/B8/B20 LTE TDD: B40 WCDMA: B1/B5/B8 GSM:900/1800
	NFC	Support, 13.56MHz, Support ISO/IEC 14443A/14443B/15693/18092/ mifare protocols,Card reading distance: 3-5cm
Reliability	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
	IP Grade	IP65
2D	Support	Optical resolution: 5mil/ scan speed: 50 times/s

Product Features:

- Supports Windows 11/10 OS
- Front and rear dual cameras
- Supports multiple communication methods
- 7.4V/4000mAh high-voltage large-capacity battery
- GPS, Glonass multi-navigation positioning systems
- Supports NFC, professional barcode scanning engine module
- IP65-grade waterproof and shockproof

Processor Solution:

Model	Performance Parameter
EM-I61J	Intel Celeron N5100 CPU Windows 10/11 8GB RAM 128GB ROM

Accessories:



Hand-strap



Hand Clip holder



Docking Charger



Specification		
Basic Parameter	Dimension	227.7 x 150.8 x 24.7mm
	Weight	680 g
	Device Color	Black
	LCD	8" IPS 16:10, 800*1280, 700nits
	Touch Panel	10-point capacitive touchscreen
	Camera	Front 5.0MP, Rear 13.0MP, Autofocus with flash
	I/O	USB 2.0 x 1/Type C x 1/ Φ3.5mm standard earphone jack x 1/ Micro SD card x1/ DC 5V 3A 3.5mm power port x 1/ 12PIN Pogo Pin x 1
	Power	AC100V ~ 240V, 50Hz/60Hz, Output DC 5V/3A
Battery	Capacity	3.8V/6000mAh
	Type	Built-in Li-polymer battery
	Endurance	7hrs
Communication	GNSS	Support GPS+Glonass+Beidou
	WIFI	2.4G+5G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT 5.2(BLE), Transmission distance: 10m
	2G/3G/4G (Optional)	WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8 TDD: B38+B39+B40+B41N FDD: B1+B2+B3+B4+B5+B7+B8+B17+B20+ B28a&b
	NFC	Support, 13.56MHz, Support ISO/IEC 14443A protocol Card reading distance: 4 cm
Reliability	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
	IP Grade	IP65
Data Acquisition	NFC	Support, 13.56MHz, Support ISO/IEC 14443A protocol Card reading distance: 4 cm
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s

Product Features:

- Support Android 14/12
- Optional NFC,1D,2D
- IP65 Grade
- Rich accessories

Processor Solution:

Model	Performance Parameter
EM-T81X	ARM OCTA Core CPU Android 14/12 (GMS) 8GB RAM 128GB ROM

Accessories:



Hand-strap



Docking Charger



Vehicle Mount



Product Features:

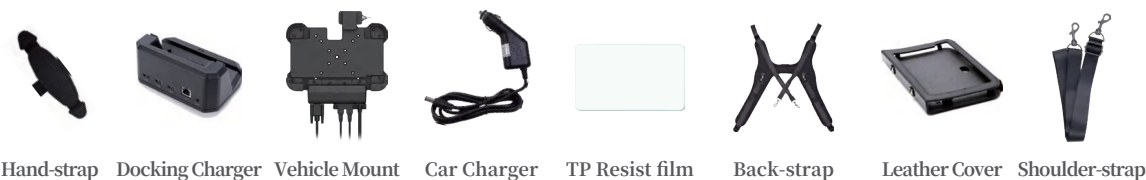
- Optional NFC, 1D/2D
- IP67 Grade
- Support multiple communication methods
- Rich accessories

Processor Solution:

Model	Performance Parameter
EM-T86X	ARM OCTA Core CPU Android 14/12 (GMS) 8GB RAM 128GB ROM

Specification		
Basic Parameter	Dimension	225.6 x 144.6 x 21.5mm
	Weight	715 g
	Device Color	Black
	LCD	8" IPS FHD 800*1280, 700nits
	Touch Panel	10-point capacitive, Corning Gorilla glass, G+G, handwriting support
	Camera	Front 5.0MP, Rear 13.0MP, Auto focus with flash
	I/O	USB2.0*1, Type C *1 3.5mm Standard Earphone Jack*1 SIM card*1, TF card*1, Max: 256GB 3.5mm Power Port*1, 12PIN Pogo Pin*1
Battery	Capacity	3.7V/8500mAh
	Type	Built-in Lithium-ion polymer battery
	Endurance	9hrs
Communication	GNSS	GPS/GLONASS/BEIDOU/Galileo/QZSS/SBAS
	WIFI	2.4G+5G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT 5.1
	2G/3G/4G/5G (Optional)	GS: B2+B3+B5+B8 WCDMA: B1+B2+B5+B8 TDD: B38+B39+B40+B41N (2535mhz-2655mhz) FDD: B1+B2+B3+B4+B5+B7+B8+B17+B20+B28a+B28b
Reliability	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
	IP Grade	IP67
Data Acquisition	NFC	Support, 13.56MHz, Support ISO/IEC 14443A protocol , Card reading distance: 4cm,
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s

Accessories:



Product Features:

- Optional 2D
- Support GPS, Glonass
- Optional NFC
- IP65 Grade
- Support multiple communication methods

Processor Solution:

Model	Performance Parameter
EM-I87J	Intel Celeron N5100 CPU Windows 11 8GB RAM 128GB ROM
Model	Performance Parameter
EM-T87X	ARM OCTA Core CPU Android 14/12 (GMS) 8GB RAM 128GB ROM

Specification		
Basic Parameter	Dimension	236.7 x 155.7 x 20mm
	Weight	910 g
	Device Color	Black
	LCD	8" TFT 16:10, 1200*1920 (EM-I87J Optional 800*1280), 550nits (EM-I87J Optional 700nits)
	Touch Panel	10-point capacitive touchscreen (EM-I87J) 5-point capacitive touchscreen (EM-T87X)
	Camera	Front 5.0MP, Rear 8.0MP, auto focus, with flashlight function (EM-I87J), Front 5.0MP, Rear 13.0MP (EM-T87X)
	I/O	Three in one card holder Micro SD Card, Nano-SIM Card USB3.0 *1, Type C 3.1 *1 (EM-I87J) USB 2.0*1, Type-C *1 (EM-T87X), HDMI 2.0a mini x1 (EM-I87J), 12pin Pogo Pin x 1 Φ3.5mm standard earphone jack x 1
Battery	Power	PD Fast Charger Adapter (EM-I87J) USB Type-C 9V/2A (EM-T87X)
	Capacity	7.6V/5000mAh (EM-I87J), 3.8V/10000mAh (EM-T87X)
	Type	Removable polymer lithium battery
Communication	Endurance	7hrs (EM-I87J), 9hrs (EM-T87X)
	GNSS	GPS (EM-I87J) GPS/GLONASS/Beidou/GALILEO/QZSS/SBAS (EM-T87X)
	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT 5.0 (EM-I87J) BT 5.1 (EM-T87X)
Reliability	4G (Optional)	LTEFDD: B1/B3/B5/B7/B8/B20 LTE-TDD: B40, GSM: 900/1800, WCDMA: B1/B5/B8, Optional EC25-AF, 750-VA, 750-VSA (EM-I87J) GSM: B2/3/5/8, WCDMA: B1/2/5/8, FDD: B1/2/3/4/5/7/8/17/20/28A/28B, TDD: B38/39/40/41 (EM-T87X)
	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
Data Acquisition	IP Grade	IP65
	NFC	Optional, 13.56MHz, Support ISO/IEC 14443A/14443B/15693/18092/mifare protocols Card reading distance: 4 cm
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s

Accessories:





Specification		
Basic Parameter	Dimension	219 x 139 x 12.5mm
	Weight	524 g
	Device Color	Black
	LCD	8" FHD 16:10, 1200*1920, 550 nits
	Touch Panel	10 point G+G capacitive touch screen
	Camera	Front 5.0MP, Rear 13.0MP, Auto focus
	I/O	TF card x 1, SIM card x 2, Two out of three (Micro SIM+TF or Micro SIM+Nano SIM) Type-C x 1 12pin Pogo Pin x 1
Battery	Power	USB Type-C port, supports fast charging PE+2.0, Maximum 9V/2A (EM-T89) USB Type-C port, 12V/3A (EM-Q89)
	Capacity	3.8V/7200mAh (EM-T89), 7.6V/3220mAh (EM-Q89)
	Type	Built-in Li-polymer battery
	Endurance	About 11hrs (EM-T89), About 10.5hrs (EM-Q89)
Communication	GNSS	GPS/GLONASS/BEIDOU/Galileo/QZSS/SBAS (T89) GPS (Q89)
	WIFI	2.4G+5G (5.1G+5.8G), WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT 5.1, Transmission distance: 10m
	2G/3G/4G	T89: GSM: B2/3/5/8, WCDMA: B1/2/5/8 FDD: B1/2/3/4/5/7/8/17/20/28A/28B TDD: B38/39/40/41 Q89: European Version Bands: GSM: NA WCDMA: B1+B3+B5+B8 FDD: B1+B3+B5+B7+B8+B20+B28 (a+b) TDD: B38+B39+B40+B41
	Operate Temperature	-10 °C ~ 50 °C
Reliability	Store Temperature	-20 °C ~ 60 °C
	Humidity	95%(non-condensing)
	IP Grade	IP65
Data Acquisition	NFC (EM-T89)	Frequency: 13.56MHz, Support 14443A/14443B/15693/18092/mifare protocols under ISO/IEC Card reading distance: 2.5~4cm
	2D	Optional, Optical resolution: 3mil/scan speed: 75 times/s

Product Features:

- Lightweight design
- Support NFC
- IP65 Grade
- Support GPS, Galileo, Beidou, Glonass

Processor Solution:

Model	Performance Parameter
EM-T89	ARM Octa Core CPU Android 14 GMS 8GB RAM 128GB
Model	Performance Parameter
EM-Q89	ARM OCTA Core CPU Windows 11 4GB RAM 128GB ROM

Accessories:



Docking Charger



Hand-strap



Specification		
Basic Parameter	Dimension	289.9 x 196.7 x 21.2mm
	Weight	1190g (EM-I10J), 1230g (EM-I10A)
	Device Color	Black
	LCD	10.1" IPS 16:10, 1200*1920, 700nits
	Touch Panel	10 point capacitive, G+G (EM-I10J) G+F+F (EM-I10A),
	Camera	Front 5.0MP, Rear 8.0MP (EM-I10J) Front 2.0MP, Rear 8.0MP (EM-I10A)
Battery	I/O	TF Card x 1 Max 128GB, SIM Card x 1 USB 3.0 x1 (EM-I10J), USB 3.1 x1 (EM-I10A), Type C x 1, HDMI 2.0a x 1 (EM-I10J), HDMI 2.1a x 1 (EM-I10A), 12pin Pogo Pin x 1 Φ3.5mm standard earphone jack x 1, Φ5.5mm DC jack x 1
	Power	AC100V ~ 240V, 50Hz/60Hz, DC 19V/3.42A
	Capacity	7.4V/860mAh small battery+7.4V/5000mAh large battery
	Type	Double Lithium-ion polymer battery
Communication	Endurance	5.5hrs+30min (EM-I10J), 4.5hrs+30min (EM-I10A)
	GNSS	GPS, Glonass (EM-I10A Optional GPS, Glonass, Beidou)
	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac) (EM-I10J), 2.4G+5.8G, WIFI 6 802.11(a/b/d/e/g/h/i/k/n/r/u/ v/w/ac/ax) (EM-I10A)
	Bluetooth	BT 5.0 (EM-I10J), BT 5.1 (EM-I10A) Transmission distance: 10m
	4G (Optional)	LTE FDD: B1/B3/B7/B8/B20, LTE TDD B40 WCDMA B1/B5/B8 GSM: 900/1800
Reliability	5G	Optional (EM-I10A)
	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
Data acquisition	IP Grade	IP65
	NFC(Optional)	13.56MHz, Card reading distance: 4cm
Expansion module (One out of four)	Fingerprint	Support
	RJ45	10/100M Ethernet port x 1 (EM-I10J), 10/100/1000M Ethernet port x 1 (EM-I10A)
	DB9	RS232 interface x 1
	USB	USB 2.0 x 1
2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s	

Product Features:

- Support Windows 11
- Support GPS, Beidou, Glonass
- Optional NFC
- IP65 Grade
- Corning gorilla glass
- Multiple extended function modules

Processor Solution:

Model	Performance Parameter
EM-I10J	Intel Celeron N5100/N5105 2.9GHz CPU Windows 11 8GB/16GB RAM 128GB ROM
Model	Performance Parameter
EM-I10A	Intel i5 1235U/i7 1255U Windows 11 16GB RAM 128GB/256GB/512GB/1TB ROM

Accessories:



Docking Charger



Hand-strap



Carry Handle



Removable Battery



Vehicle Mount



Stylus



Quad Charging



Specification		
Basic Parameter	Dimension	275.7 x 187.5 x 24.5mm
	Weight	970g (EM-Q115M), 1000g (EM-T11X)
	Device Color	Black
	LCD	10.1" IPS 16:10, 1200*1920, 400 nits (EM-Q115M) 800*1280, 700 nits (EM-T11X)
	Touch Panel	10 point capacitive, G+G
	Camera	Front 5.0MP, Rear 13.0MP
	I/O	USB 3.0 x 1 (EM-Q115M), USB 2.0 x (EM-T11X) Type-C x 1, Earphone jack x 1, SIM card x 1, TF card x 1 HDMI 1.4a Type C x 1 (EM-Q115M) 12PIN Pogo Pin *1, DC 5V 3A power port *1
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/3A
	Capacity	3.7V/8000mAh
	Type	Built-in Lithium-ion polymer battery
Communication	Endurance	5.5hrs (EM-Q115M), 9hrs (EM-T11X)
	GNSS	Q115M: GPS L1&L5/Beidou/Glonass/Galileo/NavIC/IRNSS T11X: GPS+Glonass+Beidou
	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT5.1 (EM-Q115M), BT5.2 (EM-T11X)
	2G/3G/4G/5G (Optional)	EM-Q115: 5G(N1/N28/N41/N78/N79/NSA/SA), TDD-LTE: B34/38/39/40/41 FDD-LTE: B1/3/5/7/8, WCDMA: B1/5/8 T11X: GSM: 2+3+5+8, WCDMA: 1+2+5+8 TDD: 38+39+40+41N(2535mhz~2655mhz) FDD: 1+2+3+4+5+7+8+17+20+28a+28b
Reliability	Operate Temperature	-10 °C ~ 50 °C (Q115M), -20 °C ~ 60 °C (T11X)
	Store Temperature	-20 °C ~ 60 °C (Q115M), -30 °C ~ 70 °C (T11X)
	Humidity	95%(non-condensing)
Expansion Module	IP Grade	IP65
	NFC	ISO/IEC 14443A, Card reading distance: 4cm
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s

Product Features:

- Optional NFC, 1D/2D
- IP65 Grade
- Rich accessories

Processor Solution:

Model	Performance Parameter
EM-Q115M	ARM OCTA Core CPU Android 11 4GB RAM 64GB ROM
Model	Performance Parameter
EM-T11X	ARM OCTA Core CPU Android 14/12 (GMS) 8GB RAM 128GB ROM

Accessories:



Hand-strap



Docking Charger



Vehicle Mount



Car Charger



Product Features:

- Optional NFC, Fingerprint
- Optional 1D/2D
- Support GPS
- IP65 Grade
- Corning gorilla glass
- Rich accessories

Processor Solution:

Model	Performance Parameter
EM-R16	RK3588 Android 13 8GB storage 128GB/1T
Model	Performance Parameter
EM-I16J	Intel Celeron N5100 CPU Windows 11/Windows 10 8GB/4GB RAM 128GB/64GB/256GB ROM

Accessories:



Hand-strap



Docking Charger



Removable Battery



Car Charger



Vehicle Mount



Carry Handle



Shoulder-strap

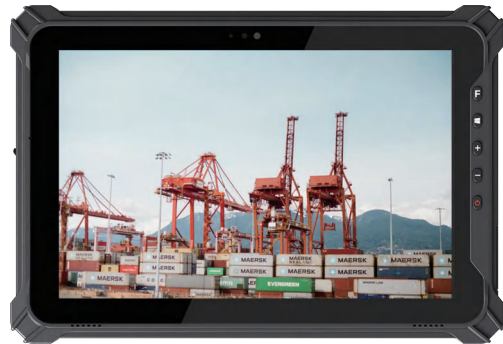


Back-strap



Quad Charging

Specification		
Basic Parameter	Dimension	280.4 x 187 x 26.6mm
	Weight	1014 g
	Device Color	Black
	LCD	10.1" FHD 16:10, 1200*1920, 400nits (EM-I16J), 700nits (EM-R16)
	Touch Panel	10 point capacitive, G+G, Corning gorilla glass
	Camera	Front 5.0MP, Rear 8.0MP (EM-I16J) Front 5.0MP, with photo sensor, Rear 13.0MP, with flashlight (EM-R16)
	I/O	USB3.0 x 1, Type C x 1, Earphone Jack x 1, HDMI 2.0a mini x 1 (Only for EM-I16J) USB3.0 x 2 (Only for EM-R16), DB9 x 1 (Only for EM-I16J) SIM card x 1, TF card x 1, DC 12V 4A power port x 1 12PIN Pogo Pin x 1, RJ45 network port x 1
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 12V/4A
	Capacity	7.4V/5000mAh
	Type	Removable polymer lithium battery
Communication	Endurance	6.5hrs (EM-I16J), 7.5hrs (EM-R16)
	GNSS	GPS, Glonass (EM-I16J), GPS+Beidou (EM-R16)
	WIFI	WIFI 802.11(a/b/g/n/ac), Frequency 2.4G+5.8G, Dual-band WIFI Intel 9461 (EM-I16J) WIFI 802.11 (b/g/n/a/ac), Frequency 2.4G+5G, Dual-band WIFI (EM-R16)
	Bluetooth	BT5.1 (EM-I16J), BT5.0 (EM-R16)
	2G/3G/4G (Optional)	I16J: LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B40 WCDMA: B1/5/8 GSM: 900/1800 R16: LTE-FDD: B1/3/5/7/8/20 LTE-TDD: B40 WCDMA: B1/5/8 GSM: 900/1800
Reliability	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
Data Acquisition	IP Grade	IP65
	NFC	Supports ISO/IEC 14443A/14443B/15693/18092/ mifare protocols, Card reading distance: 4cm
	1D	Optional, Optical resolution: 5mil/scan speed: 50 times/s
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s
	Fingerprint	Optional



Product Features:

- Optional 2D
- Support GPS, Glonass
- Optional NFC
- IP65 Grade
- Multiple extended function modules

Processor Solution:

Model	Performance Parameter
EM-I17J	Intel Celeron N5100 CPU Windows 11/Windows 10 8GB RAM 128GB ROM
EM-I17J(EX)	Intel Celeron N5100 CPU Windows 11/Windows 10 8GB RAM 128GB ROM
EM-T17X	Qualcomm OCTA Core CPU Android 14/12 (GMS) 8GB RAM 128GB ROM
EM-T17X(RTK)	Qualcomm OCTA Core CPU Android 12 8GB RAM 128GB ROM

Specification		
Basic Parameter	Dimension	274.9 x 188.7 x 23.1mm
	Weight	1140 g
	Device Color	Black
	LCD	10.1" FHD 16:10, 1200*1920 / 800*1280, 400 nits (EM-I17J/I17J-EX), 10.1" FHD 16:10, 1200*1920, 700 nits (EM-T17X/T17X-RTK)
	Touch Panel	10 point capacitive, G+G
	Camera	Front 5.0MP, Rear 8.0MP (EM-I17J/I17J-EX) Front 5.0MP, Rear 13.0MP (EM-T17X/T17X-RTK)
	I/O	Three in one card holder Micro SD Card, Nano-SIM Card(EM-I17J/I17J-EX), SIM x 2/TF card x 1(EM-T17X/T17X-RTK), USB 3.0 x1, Type-C 3.1 x1 (EM-I17J/I17J-EX), USB 2.0 x1, Type-C x1 (EM-T17X/T17X-RTK), HDMI 2.1a x 1 (EM-I17J/I17J-EX), Φ3.5mm standard earphone jack x 1
Battery	Power	PD Fast Charger Adapter (EM-I17J/I17J-EX) USB Type-C interface, supports fast charging PE+2.0, maximum power of 18W, maximum 9V/2A (EM-T17X/T17X-RTK)
	Capacity	7.6V/5000mAh(EM-I17J/I17J-EX), 3.8V/10000mAh (EM-T17X/T17X-RTK)
	Type	Removable polymer lithium battery
Communication	Endurance	8hrs (EM-I17J/I17J-EX), 9hrs (EM-T17X), 7hrs(EM-T17X-RTK)
	GNSS	GPS/GLONASS (EM-I17J/I17J-EX), GPS/GLONASS/BEIDOU/Galileo/QZSS/SBAS (EM-T17X) BDS: B1I, B2I, B3I, GPS: L1C/A, L2P(W), L5 GLONASS: L1, L2, Galileo: E1, E5b, E5a, QZSS: L1, L2, L5 Single point positioning: 2.5m RTK plane: 0.8 cm + 1 ppm, Elevation: 1.5 cm + 1 ppm, Data update rate: 1Hz/10Hz, First cold start positioning time: 30s(EM-T17X-RTK)
	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT5.0 (EM-I17J/I17J-EX), BT5.1 (EM-T17X/T17X-RTK)
	4G(Optional)	LTE FDD: B1/B3/B7/B8/B20, LTE-TDD: B40, WCDMA B1/B5/B8, GSM 900/1800 (EM-I17J/I17J-EX) GSM B2/3/5/8, WCDMA: B1/2/5/8, TDD B38/B39/B40/B41, FDD B1/B2/B3/B4/B5/B7/B8/B17/B20/B28a&b (EM-T17X/T17X-RTK)
Reliability	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
Data Acquisition	IP Grade	IP65
	NFC	13.56MHz, Support ISO/IEC 14443A/B/15693/18092/mifare protocols, Card reading distance: 4cm, support (T17X/T17X-RTK), optional (EM-I17J/I17J-EX)
Expansion Module (One out of three)	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s
	RJ45	10/100M Ethernet port
	DB9	RS232 interface
USB-A	USB 2.0	

Accessories:



Product Features:

- Support NFC
- IP65/IP67 Grade
- Support GPS, Galileo, Beidou, Glonass

Processor Solution:

Model	Performance Parameter
EM-T19	ARM Octa-Core CPU Android 14 GMS 8GB RAM 128GB
EM-Q19	ARM OCTA Core CPU Windows 11 8GB RAM 128GB ROM
EM-IS19N	Intel N150 Windows 11 8GB RAM 128GB/256GB/512GB ROM

Specification		
Basic Parameter	Dimension	263 x 177 x 10.5mm (EM-T19/EM-Q19), 260 x 174.7 x 12.7mm (EM-IS19N)
	Weight	650 g (EM-T19), 700 g (EM-Q19), 930 g (EM-IS19N)
	Device Color	Black
	LCD	10.1" IPS 16:10, 1200*1920, 400 nits/700 nits
	Touch Panel	10 point capacitive, G+G
	Camera	Front 5.0MP, Rear 13.0MP, Auto focus
	I/O	2 out of 3 card slot: Nano SIM card x1+Mirco SIM x 1 or Mirco SIM x 1 + TF card x 1 (EM-T19) Nano SIM + Micro SD card (EM-Q19/IS19N) Type C x 1 (EM-T19/Q19), Type C x 2 (EM-IS19N) 12pin Pogo Pin x 1
Battery	Power	USB Type-C port, supports fast charging PE+2.0, Maximum 9V/2A, 18W (EM-T19) USB Type-C port, 48W (EM-Q19), 33W (EM-IS19N)
	Capacity	3.8V/9500mAh (EM-T19), 7.6V/4750mAh (EM-Q19), 7.74V/4800mAh (EM-IS19N)
	Type	Built-in Lithium-ion polymer battery
Communication	Endurance	About 12hrs (EM-T19), About 11hrs (EM-Q19), About 7.4hrs (EM-IS19N)
	GNSS	GPS/GLONASS/BEIDOU/Galileo/QZSS/SBAS (T19) GPS/Galileo/GLONASS/BeiDou (Q19) GPS/GLONASS (EM-IS19N)
	WIFI	2.4G+5G/5.1G+5.8G/dual-band, WIFI 802.11 (a/b/g/n/ac) (EM-T19/Q19) Wi-Fi 6 AX101 (802.11 ax) (EM-IS19N)
	Bluetooth	BT 5.1 (EM-T19/Q19), BT 5.2 (EM-IS19N), Transmission distance: 10m
	2G/3G/4G/5G (Optional)	EM-T19: GSM: B2/3/5/8, WCDMA: B1/2/5/8 FDD: B1/2/3/4/5/7/8/17/20/28A/28B, TDD: B38/39/40/41 EM-Q19: LTE-FDD: B1/3/5/7/8/20/28A/28B LTE-TDD: B38/39/40/41 WCDMA: B1/3/5/8 EM-IS19N: LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41 Optional 5G Redcap (RG255C-GL) 5G NR SA: n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/38/40/41/48/66/70/71/77/78/79 LTE-FDD: B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/66/70/71 LTE-TDD: B34/38/39/40/41/42/43/48
Reliability	Operate Temperature	-10°C~50°C (EM-T19/Q19), -20°C~60°C (EM-IS19N)
	Store Temperature	-20°C~60°C (EM-T19/Q19), -30°C~70°C (EM-IS19N)
	Humidity	95%(non-condensing)
Data Acquisition	IP Grade	IP65 (EM-T19/Q19), IP67 (EM-IS19N)
	NFC	Built-in, 13.56MHz, Support ISO/IEC 14443A/B/15693/18092 protocols Card reading distance: 4cm (EM-T19)
2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s	

Accessories:



Rugged Tablet EM-I20J/I20A



Specification		
Basic Parameter	Dimension	339.3 x 230.3 x 26mm
	Weight	1500g
	Device Color	Black
	LCD	12.2 inch FHD 16:10, 1920 x 1200, 650nits (EM-I20J) 12.2 inch IPS 16:10, 1920 x 1200, 650nits (EM-I20A)
	Touch Panel	10 points capacity TP, G+G, Hardness over 7H, Scratch resistant, Support stylus Optionally supports glove touch (EM-I20A)
	Camera	Front 5.0MP, Rear 8.0MP, with flashlight (EM-I20J) Front 2.0MP, Rear 8.0MP (EM-I20A)
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 19V/3.42A/65W
	Capacity	7.4V/6300mAh+7.4V/860mAh (EM-I20J) 7.4V/6300mAh+7.4V/700mAh (EM-I20A)
	Type	Double Lithium-ion polymer battery
	Endurance	4.5hrs+30min (EM-I20A), 4hrs+30min (EM-I20J)
Communication	GNSS	GPS/Glonass (EM-I20J), GPS/Glonass, Optional GPS/Beidou/Glonass (EM-I20A)
	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac) (EM-I20J) 2.4G+5.8G, WIFI 6 802.11(a/b/d/e/g/h/i/k/n/r/u/v/w/ac/ax) (EM-I20A)
	Bluetooth	BT 5.0 (EM-I20J), BT 5.0 (EM-I20A)
	4G/5G (Optional)	4G: LTE FDD: B1/B3/B7/B8/B20, LTE TDD: B40 WCDMA: B1/B5/B8, GSM: 900/1800, 5G SA&NSA: LTE-FDD: B1/B3/B5/B7/B8/B18/B19/B20/B28/B32 LTE-TDD: B34/B38/B39/B40/B41/B42 WCDMA: B1/B5/B8 N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N71/N77/N78/N79, Optional 5G
	Reliability	Operate Temperature -20 °C ~ 60 °C Store Temperature -30 °C ~ 70 °C Humidity 95%(non-condensing) IP Grade IP65
Expansion module (One out of five)	NFC	Optional 13.56MHz, Card reading distance: 4cm
	RJ45	10/100M Ethernet port x 1 (EM-I20J), 10/100M/1000M Ethernet port x 1 (EM-I20A)
	DB9	RS232 interface x 1
	USB	USB 2.0 x 1
	2D	Support, Optical resolution: 5mil/scan speed: 50 times/s

Product Features:

- Support Windows 10/11
- Support GPS, Beidou, Glonass
- Optional NFC
- IP65 Grade
- Optional 5G
- Multiple extended function modules

Processor Solution:

Model	Performance Parameter
EM-I20J	Intel Celeron N5100/N5105 CPU Windows 11 8GB/16GB RAM 128GB (removable) ROM
Model	Performance Parameter
EM-I20A	Intel Core™ i5-1235U/i7-1255U CPU Windows 11/10 8GB/16GB RAM 128GB Max 512GB ROM

Accessories:



Rugged Tablet EM-I14M/I14A



Specification		
Basic Parameter	Dimension	366.2 x 246.9 x 24.8mm
	Weight	2230g (EM-I14M), 2250g (EM-I14A)
	Device Color	Black
	LCD	14" FHD 16:10, 1920*1080, 1000 nits
	Touch Panel	10-Point Capacitive Screen, G+G, Above 7H hardness, Scratch-resistant, Supports glove touch
	Camera	Front 5.0MP, Rear 13.0MP (EM-I14M) Front 5.0MP, Rear 8.0MP (EM-I14A)
Battery	I/O	TF x 1, SIM card x 1, Earphone jack x 1 USB3.2 x 1, USB2.0 x 2, TYPE-C x 1 HDMI 2.0a mini x 1 RJ45 x 2, RS232x 1 DC19V/3.78A power port x 1 12PIN Pogo Pin (USB&Base Charger)x 1
	Power	DC input 100-240VAC/0.5A50/60Hz,DC19V/3.78A 71.82W
	Capacity	4700mah/11.4V +1300mah/11.1V
	Type	Double Lithium-ion polymer battery
Communication	Endurance	8hrs + 1.5hrs
	GNSS	Supports single GPS or single Glonass, default GPS
	WIFI	Wi-Fi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax
	Bluetooth	BT5.1
	4G/5G (Optional)	LTE-FDD: B1/3/5/7/8/20/28,LTE-TDD: B38/40/41 5G (Optional) NSA n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/ 41/48/66/70/71/75/76/77/78/79 SA n1/2/3/5/7/8/12/13/14/ 18/20/25/26/28/29/30/38/ 40/ 41/48/66/70/71/75/ 76/77/78/79 LTE LTE-FDD B1/2/3/4/5/7/8/ 12/13/14/17/18/19/20/ 25/26/28/ 29/30/32/66/71 LTE-TDD B34/38/39/40/ 41/42/43/48
Reliability	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
	IP Grade	IP65
Data Acquisition	NFC	Optional, USB interface, supports ISO14443A, ISO14443B, IOS15693, ISO18092, Felica.
	Fingerprint	Standard, used for power-on login
	2D	Optional, Optical resolution: 5mil, scan speed: 50 times/s

Product Features:

- All-new Intel® Core™ Ultra processor
- 14-inch HD&HB screen
- With a dedicated AI engine (NPU)
- Expanded Storage Capabilities
- Thunderbolt 4 Versatile Interface
- 56Wh+14.4Wh dual battery

Processor Solution:

Model	Performance Parameter
EM-I14M	Intel® Core™ 125H/ 155H Windows 11 16GB/32GB RAM 256GB SSD
Model	Performance Parameter
EM-I14A	Intel i5-1235U/i7-1255U Windows 11/10 16GB/32GB RAM 256GB/512 Removable

Accessories:



Rugged Notebook EM-I22J/Q225MP



Specification		
Basic Parameter	Dimension	319.6 x 216 x 24.3mm
	Weight	1500 g
	Device Color	Black
	LCD	12.2" IPS 16:10, 1920*1200, 700 nits (EM-Q225MP) 650 nits/280 nits (EM-I22J)
	Touch Panel	10 point capacitive, G+G, Corning gorilla glass
	Camera	Front 5.0MP, Rear 8.0MP (EM-I22J) Front 5.0MP, Rear 13.0MP(EM-Q225MP)
	I/O	TF Card x 1, SIM Card x 1 USB2.0 x 1, USB3.0 x 2 (EM-I22J) USB2.0 x 2, USB3.0 x 1 (EM-Q225MP) HDMI 2.0a mini x1 (EM-I22J), HDMI 1.4 mini (EM-Q225MP) Type-C x 1, DB9 x 2, RJ45 x 1, 12pin Pogo Pin x 1 Φ3.5mm standard earphone jack x 1 Φ3.5mm Power connector x1 (EM-Q225MP) Φ4mm Power connector x 1 (EM-I22J)
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 19V/3.42A (EM-I22J), DC 5V/4A (EM-Q225MP)(EM-Q225MP)
	Capacity	7.4V/6300mAh+1000mAh (EM-I22J) 3.7V/12600mAh (EM-Q225MP)
	Type	Removable polymer lithium battery
Communication	Endurance	8.5hrs+1hrs (EM-I22J), 7.9hrs (EM-Q225MP)
	GNSS	GPS+GLONASS (EM-I22J) GPS/GLONASS/Beidou/Galileo/QZSS (EM-Q225MP)
	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac) (EM-I22J) Wi-Fi 6E (802.11 ax) (EM-Q225MP)
	Bluetooth	BT 5.0 (EM-I22J), BT 5.2 (EM-Q225MP) Transmission distance: 10m
	2G/3G/4G/5G (Optional)	EM-I22J LTE-FDD: B1/B3/B5/B7/B8/B20, LTE-TDD: B40, WCDMA: B1/B5/B8, GSM: 900/1800, (5G optional) SA&NSA: N1/N3/N5/N7/N8/N20/N28/N38/N40/N41/N71/N77/N78/N79 5G SA&NSA: LTE-FDD: B1/B3/B5/B7/B8/B18/B19/B20/B28/B32 LTE-TDD: B34/B38/B39/B40/B41/B42, WCDMA: B1/B5/B8 5G SA&NSA: LTE-FDD: B1/B3/B5/B8/B28, LTE-TDD: B34/B38/B39/B40/B41, WCDMA: B1/B8, N1/N28/N41/N78/N79 EM-Q225MP 5G: SA/ NSA: n1/3/5/7/8/20/28/38/40/41/77/78/79 4G: B1/2/3/4/5/7/8/12/17/18/19/20/26/28/32/34/38/39/40/41/42 3G: B1/2/4/5/6/8/19 2G: B2/3/5/8
	Operate Temperature	-20 °C ~ 60 °C
Reliability	Store Temperature	-30 °C ~ 70 °C
	Humidity	95%(non-condensing)
Data Acquisition	IP Grade	IP65
	NFC	Optional, 13.56MHz, Card reading distance: 4cm Support ISO/IEC 14443A/B/15693/18092/mifare (EM-I22J) Built-in, 13.56MHz, Card reading distance: 4cm(EM-Q225MP)
	1D	Optional, Optical resolution: 5mil/scan speed: 50 times/s
2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s	

Product Features:

- Support Ublox GPS
- Support DB9 Serial port
- IP65 Grade
- Corning gorilla glass
- Rich accessories
- Optional 5G

Processor Solution:

Model	Performance Parameter
EM-I22J	Intel Celeron N5100 CPU Windows 11 8GB/4GB/16GB RAM 128GB/64GB/256GB/512GB ROM
Model	Performance Parameter
EM-Q225MP	ARM OCTA Core CPU Android 14 8GB RAM 128GB ROM

Accessories:



Hand-strap Docking Charger Removable keyboard Removable Battery Car Charger Vehicle Mount Carry Handle Shoulder-strap Back-strap Bracket

Rugged Notebook EM-X14M/X14A



Specification		
Basic Parameter	Dimension	363.2 x 287 x 42.1mm
	Weight	2970g
	Device Color	Black
	LCD	14" FHD 16:10, 1920*1080,1000 nits
	Touch Panel	Optional 10-Point Capacitive Screen, G+G, Corning Gorilla Glass, above 7H hardness, Scratch-resistant, Supports glove touch
	Camera	Front 5.0MP
	I/O	TF x 1, SIM card x 1, Earphone jack x 1 USB3.2 x 2, USB2.0 x 1, TYPE-C x 1 (Supports Thunderbolt 4) HDMI 2.0a mini x 1 RJ45 x 2, RS232x 1 DC19V/3.78A power port x 1 12PIN Pogo Pin (USB&Base Charger)x 1 Optional
Battery	Power	DC input 100-240VAC/0.5A50/60Hz, DC19V/3.78A 71.82W
	Capacity	4700mah/11.4V (56WH) +1300mah/11.1V (14.4WH)
	Type	Double Lithium-ion polymer battery
	Endurance	8 + 1.5hrs (EM-X14M), 6.5 + 1.5hrs (EM-X14A)
Communication	GNSS	Supports single GPS or single Glonass, default GPS
	WIFI	Wi-Fi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax
	Bluetooth	BT5.1
	4G/5G (Optional)	LTE-FDD: B1/3/5/7/8/20/28, LTE-TDD: B38/40/41 5G NSA n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/30/38/40/ 41/48/66/70/71/75/76/77/78/79 SA n1/2/3/5/7/8/12/13/14/ 18/20/25/26/28/29/30/38/ 40/ 41/48/66/70/71/75/ 76/77/78/79 LTE LTE-FDD B1/2/3/4/5/7/8/ 12/13/14/17/18/19/20/ 25/26/ 28/29/30/32/66/71 LTE-TDD B34/38/39/40/ 41/42/43/48
	Operate Temperature	-20 °C ~ 60 °C
	Reliability	Store Temperature
Humidity		95%(non-condensing)
Data Acquisition	IP Grade	IP65
	NFC	Optional, 13.56MHz, Card reading distance: 4cm
Fingerprint	Standard, SPI fingerprint (Power-On Login)	

Product Features:

- Intel® Core™ Ultra 7 processor
- 14-inch HD&HB fully laminated display
- With a dedicated AI engine (NPU)
- Expanded Storage Capabilities
- Thunderbolt 4 Versatile Interface
- 56Wh+14.4Wh dual battery

Processor Solution:

Model	Performance Parameter
EM-X14M	Intel® Core™ Ultra 7 processor 125H/ 155H Windows 11 32GB/16GB RAM 256GB/512GB/1T ROM
Model	Performance Parameter
EM-X14A	Intel i5-1235U/i7-1255U Windows 11 16GB/32GB RAM 256GB/512GB/1T ROM

Six views of product:



Accessory:



Removable Battery Quad charging



Specification		
Basic Parameter	Dimension	407 x 305.8 x 45.5mm
	Weight	3520g
	Device Color	Black
	LCD	15.6" FHD 16:10, 1920*1080, 1000 nits
	Touch Panel	Optional 10-Point Capacitive Screen, G+G, Corning Gorilla Glass, above 7H hardness, Scratch-resistant, Supports glove touch
	Camera	Front 5.0MP
Battery	I/O	TF x 1, SIM card x 1, Earphone jack x 1 USB3.2 x 2, USB2.0 x 1, TYPE-C x 1 (Supports Thunderbolt 4) HDMI 2.0a mini x 1 RJ45 x 2, RS232 x 1 DC19V/3.78A power port x 1 12PIN Pogo Pin (USB&Base Charger)x 1 optional
	Power	DC input 100-240VAC 0.5A50/60Hz, DC19V/3.78A 71.82W
	Capacity	4700mah/11.4V (56WH) + 1300mah/11.1V (14.4WH)
	Type	Double Lithium-ion polymer battery
Communication	Endurance	7+1.5hrs (EM-X15M), 6.5+1.5hrs (EM-X15A)
	GNSS	Supports single GPS or single Glonass, default GPS
	WIFI	Wi-Fi 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax
	Bluetooth	BT5.1
	4G/5G (Optional)	LTE-FDD: B1/3/5/7/8/20/28, LTE-TDD: B38/40/41 5G NSA n1/2/3/5/7/8/12/13/14/18/20/25/26/28/29/ 30/38/40/41/48/66/70/71/75/76/77/78/79 SA n1/2/3/5/7/8/12/13/14/ 18/20/25/26/28/29 /30/38/ 40/41/48/66/70/71/75/ 76/77/78/79 LTE LTE-FDD B1/2/3/4/5/7/8/ 12/13/14/17/18/19/ 20/ 25/26/28/29/30/32/66/71 LTE-TDD B34/38/39/40/ 41/42/43/48
	Reliability	Operate Temperature -20 °C ~ 60 °C Store Temperature -30 °C ~ 70 °C Humidity 95% (non-condensing) IP Grade IP65
Data Acquisition	NFC	Optional 13.56MHz, Card reading distance: 4cm
	Fingerprint	Standard, SPI fingerprint (Power-On Login)
	Keyboard	Standard, US layout keyboard with backlight

Product Features:

- Intel® Core™ Ultra processor
- 15.6-inch HD&HB fully laminated display
- With a dedicated AI engine (NPU)
- Expanded Storage Capabilities
- Intel® Arc™ integrated graphics
- 56Wh+14.4Wh dual battery

Processor Solution:

Model	Performance Parameter
EM-X15M	Intel® Core™ Ultra 125H/ 155H Windows 11 32GB/16GB RAM 256GB/512GB/1T ROM
Model	Performance Parameter
EM-X15A	Intel i5-1235U/i7-1255U Windows 11 16GB/32GB RAM 256GB/512GB/1T ROM

Six views of product:



Accessory:



Removable Battery Quad charging



Specification		
Basic Parameter	Dimension	356 x 269 x 41mm
	Weight	2850g
	Device Color	Black
	LCD	14.0" FHD, 1920*1080, 1000 nits
	Camera	Front 5.0MP
	I/O	USB 3.2 x2, USB 3.2 (Type-C) x1, USB 4.0 (Type-C) x1, Oculink x1, HDMI 2.1 Type-A x1, Fan x2, Audio jack x 1, RJ45 x2, RS232 x1, SIM card x1, SD card x1
Battery	Power	100-240V, 50Hz-60Hz, 100W
	Capacity	11.61V/6355mAh x2
	Type	Double Lithium-ion polymer battery
	Endurance	17hrs
Communication	GNSS	Optional GPS/GLONASS
	WIFI	Wi-Fi 6 802.11a/b/g/n/ac/ax (M.2)
	Bluetooth	BT5.2
	4G/5G (Optional)	2G/3G/4G: Optional 4G LTE LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM: / Optional 4G LTE-FDD: B2/4/5/12/13/17/25/26 LTE-TDD: B41 WCDMA: B2/4/5 GSM: 850/1900 Optional 4G LTE-FDD: B2/4/5/7/8/28 LTE-TDD: B40 WCSMA: B2/5/8 GSM: 850/900/1900
	Reliability	Operate Temperature -20 °C ~ 60 °C Store Temperature -30 °C ~ 70 °C Humidity 95% (non-condensing) IP Grade IP65
	Data Acquisition	Fingerprint Standard, SPI fingerprint Keyboard Standard, US layout keyboard with backlight

Product Features:

- AMD Ryzen™ AI 7 350 processor
- Overall 66 TOPS AI performance
- 14" FHD IPS, 1000 nits anti-glare display
- Dual-fan cooling + dual batteries
- USB4.0/OCuLink/dual Gigabit Ethernet ports
- Flagship touchpad and fingerprint login

Processor Solution:

Model	Performance Parameter
EM-A14	AMD Ryzen™ AI 7 350 Windows 11 16GB/64GB RAM 256GB/512GB/1T ROM

Six views of product:



Accessory:



Adapter Removable Battery



Specification			
Basic Parameter	Dimension	379 x 300 x 41mm	
	Weight	3560g	
	Device Color	Black	
	LCD	15.6" FHD, 1920*1080, 1000 nits	
	Camera	Front 5.0MP	
I/O	USB 3.2 Gen 1 x2, USB 4.0 (Type-C) x1, OCULink x1, HDMI 2.1 Type-A x1, Fan x2, 5.5 mm power port x1, RJ45 x2, RS232 x1, SIM card x1, audio jack x1, TF card x1		
	Power	100-240V, 50Hz-60Hz, 230W	
	Capacity	11.61V/6355mAh x2	
	Type	Double Lithium-ion polymer battery	
Endurance	Endurance	17hrs	
	GNSS	Optional GPS/GLONASS	
	WIFI	Wi-Fi 7 802.11a/b/g/n/ac/ax/be	
	Bluetooth	BT5.4	
Communication	4G/5G (Optional)	2G/3G/4G: Optional 4G LTE LTE-FDD: B1/3/5/7/8/20/28 LTE-TDD: B38/40/41 WCDMA: B1/5/8 GSM: / Optional 4G LTE-FDD: B2/4/5/12/13/17/25/26 LTE-TDD: B41 WCDMA: B2/4/5 GSM: 850/1900 Optional 4G LTE-FDD: B2/4/5/7/8/28 LTE-TDD: B40 WCDMA: B2/5/8 GSM: 850/900/1900	
	Operate Temperature	-20 °C ~ 60 °C	
	Store Temperature	-30 °C ~ 70 °C	
	Humidity	95%(non-condensing)	
	IP Grade	IP65	
	Reliability	Fingerprint	Standard, SPI fingerprint
		Keyboard	Standard, US layout keyboard with backlight
	Data Acquisition		

Product Features:

- AMD Ryzen™ AI MAX+ 395 processor
- Overall 126 TOPS AI performance
- Radeon™ 8060S graphics
- 15.6" FHD, 1000 nits anti-glare display
- Dual-fan cooling + dual batteries
- Wi-Fi 7/USB 4.0/OCuLink/Gigabit Ethernet ports

Processor Solution:

Model	Performance Parameter
EM-A15	AMD Ryzen™ AI MAX+ 395 Windows 11 64GB/128GB RAM 512GB/1T ROM

Six views of product:



Accessory:



Specification		
Basic Parameter	Dimension	218.1 x 154.5 x 23.0 mm
	Weight	631g (V80J), 611g (V80T)
	Device Color	Black
	LCD	8" IPS 16:10, 800*1280, 1000nits
	Touch Panel	5 point capacitive, G+G
I/O	Standard: V80J: USB 3.0 x 1/DC input: 11~24V V80T: MICRO-SIM x 1/USB 2.0 x 1/DC input: 12V Optional: V80J: Nano-SIM x 1/Ethernet interface (1000M) /9pin full function RS232 x 1 + 3pin RS485 x 1/3pin RS232 x 2/USB 2.0 x 2 + USB 2.0 (Default)/CAN x 1 V80T: Ethernet interface (100M)/RS232 x 1 + RS232/RS485 x 1 (Standard)/USB 2.0 x 1 + USB 2.0 (Default)/CAN x 1+CVBS x 1	
	Capacity	7.4V/1000mAh (V80J), 2000mAh/3.7V (V80T)
	Type	Optional small battery
	Endurance	0.5hrs, Switch on and off
GNSS	GNSS	GPS+Glonass (V80J), GPS+Glonass+Beidou (V80T)
	WIFI	WIFI 802.11(a/b/g/n/ac) Dual frequency 2.4G+5.8G (V80J), Dual frequency 2.4G+5.0G (V80T)
	Bluetooth	BT5.0 (V80J), BT5.2 (V80T), Transmission distance: 10m
	4G (Optional)	V80J: LTE FDD: B1/B3/B5/B7/B8/B20 ,LTE-TDD B40 WCDMA: B1/B5/B8 ,GSM: 900/1800 V80T: GSM: 2+3+5+8, WCDMA: 1+2+5+8, TD-S: 34+39 TDD: 38+39+40+41N (2535mhz~2655mhz) FDD: 1+2+3+4+5+7+8+17+20+28a+28b
Reliability	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% (non-condensing)
	IP Grade	IP65
Data Acquisition	NFC	Optional, 13.56MHz Card reading distance: 4cm

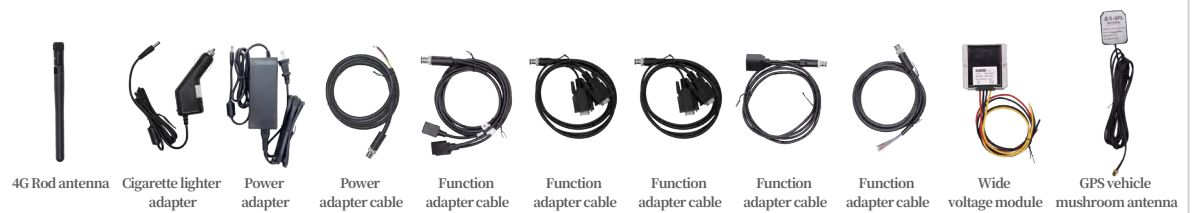
Product Features:

- Rich interface
- Optional NFC
- IP65 Grade
- Corning gorilla glass

Processor Solution:

Model	Performance Parameter
V80J	Intel Celeron N5100 CPU Windows 10 /Ubuntu22.04.4/ Ubuntu22.04.6 8GB RAM 128GB ROM
Model	Performance Parameter
V80T	Intel Celeron N5100 CPU Android 12 GMS 4GB RAM 64GB UFS ROM

Accessory:





Specification		
Basic Parameter	Dimension	264.5 x 184.1 x 23.0 mm
	Weight	834 g (V10J), 824g (V10T)
	Device Color	Black
	LCD	10.1" HD 16:10, 800*1280, 1000nits
	Touch Panel	10 point capacitive touch screen
I/O	Standard:	V10J: MICRO-SIM x 1/USB3.0 x1/M12-8 (Input: 12~24V) V10T: MICRO-SIM x 1/USB2.0 x1/M12-8 (Input: 12V)
	Optional:	V10J: RJ45 x1/RS232 x1+RS485 x1/RS232 x2/USB2.0 x3/USB2.0 x2+CAN x1 V10T: RJ45x1/RS232x1+RS485x1/RS232x2/USB2.0 x3/USB2.0 x2+CAN x1
Battery	Capacity	7.4V/1000mAh (V10J), 2000mAh/3.7V (V10T)
	Type	Optional small battery
	Endurance	0.5hrs, Switch on and off
Communication	GNSS	GPS (V10J) GPS/Beidou/Glonass/Galileo/QZS (V10T)
	WIFI	WiFi 5 Dual-band (2.4G/5G)
	Bluetooth	BT5.1 (V10J), BT5.2 (V10T), Transmission distance: 10m
	4G (Optional)	V10J: LTE FDD: B1/B3/B5/B7/B8/B20, LTE-TDD B40 WCDMA: B1/B5/B8, GSM: 900/1800 V10T: GSM: 2+3+5+8, WCDMA: 1+2+5+8, TD-S: 34+39 TDD: 38+39+40+41N (2535mhz~2655mhz) FDD: 1+2+3+4+5+7+8+17+20+28a+28b
Reliability	Operate Temperature	-20°C ~ 60°C (No battery), -10°C ~ 60°C (Battery)
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% (non-condensing)
	IP Grade	IP65
Data Acquisition	NFC	Optional, 13.56MHz Card reading distance: 4cm

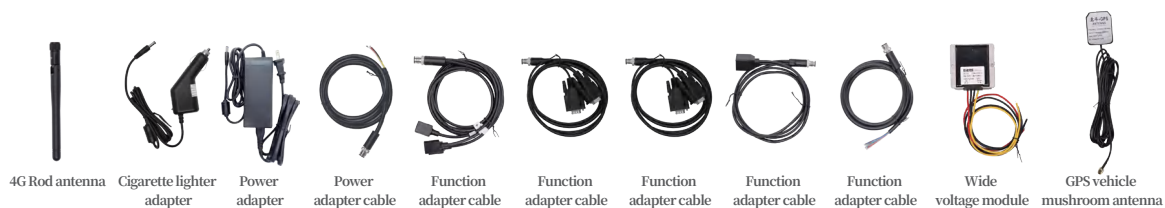
Product Features:

- Intel Celeron N5100
- ARM OCTA Core
- Windows 11, Android 12 GMS
- Fanless with low consumption
- IP65 of front panel
- Support wide-voltage input

Processor Solution:

Model	Performance Parameter
V10J	Intel Celeron N5100 CPU Windows 11 8GB RAM 128GB ROM
Model	Performance Parameter
V10T	ARM Octa-Core CPU Android 12 GMS 4GB RAM 64GB UFS ROM

Accessory:



Specification		
Basic Parameter	Dimension	282 x 181 x 31mm
	Weight	1150g
	Device Color	Black
	LCD	10"HD, 800*1280/1024*600/1200*1920, 700/750nits
	Touch Panel	5-point tempered glass capacitive screen G+G
I/O	Standard:	Micro SDx1/Nano-SIM x1/USB2.0 x1/AHD x4/ EX_CAB_FULLL Optional: TNCx2 / SMAx2 EX_CAB_FULLL: CAN x2 (MCU CAN) option CANx4 (socket CANx2+MCU CANx2) Serial port, RS232x1 (option RS232x2), RS485x1 10/100Mbps Ethernet RJ45x1, option 10/100/1000Mbps Ethernet RJ45x1 GX12 x1 (3pin, power input 6-36V & ACC) GX12x1 (12V output), GX12x1 (GPIOx2 input), USB2.0 (USB_A) x1, GX12x4 AHD input (720P*4, option 1080P x 2) 3.5mm Audio Jack x 1, Handheld microphone GX12x1
	Optional:	
Communication	GNSS	GPS, Beidou, GLONASS
	WIFI	2.4G+5.0G(5.1G+5.8G) Dual-band WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT5.0
	4G (Optional)	LTE Cat 4 WCDMA: B1+5+8 TDD: B38+40+41 FDD: B1+3+5+7+8+20+28
	Data Radio (Optional)	Frequency Range: 410-470MHz
	RTK High-Precision Positioning (Optional)	Dual Antenna Localization Dual Antenna Mode supports BDS B1/B2/B31, GPS L1/L2/L5, SBAS, GLONASS G1/G2, Galileo E1/E5a/E5b, QZSS L1/L2/L5
AHD Multi-channel camera (Optional)	Supports up to 4 channels of AHD camera	
Reliability	Operate Temperature	-20°C ~ 60°C (MIPI LCD), option -30°C ~ 70°C (LVDS LCD)
	Store Temperature	-30°C ~ 70°C (MIPI LCD), option -40°C ~ 85°C (LVDS LCD)
	Humidity	95% (non-condensing)
	IP Grade	IP65
	Electrostatic Discharge	±6kV contact discharge, ±10kV air discharge

Product Features:

- RK3568 Processor
- Android 12/Linux dual systems
- 4GB memory +64GB storage
- IP65 level + Wide temperature and voltage operation
- Rich interfaces, diverse accessories

Processor Solution:

Model	Performance Parameter
V12R	ARM Octa-Core CPU Android 12 GMS+Linux 4GB RAM 64GB

Accessory:





Product Features:

- 13MP rear camera for easy documentation
- Built-in battery management
- 700 nits high brightness
- Dedicated vehicle dock
- External GPS antenna
- IP65 / MIL-STD-810H / ISO7637-2 / ISO16750

Processor Solution:

Model	Performance Parameter
V82T	ARM Octa-Core CPU Android 14 4GB RAM 64GB ROM

Specification		
Basic Parameter	Dimension	237.6 x 148.93 x 23.13mm
	Weight	TBD
	Device Color	Black
	LCD	8.0" HD, 800*1280, 700 nits
	Touch Panel	5-point capacitive touch screen
Battery	I/O	Micro SD & Nano SIM x1, Type-C x1, USB 2.0 x1, 20-pin Pogo pin x1 (charge & USB)
	Capacity	3.8V/5000mAh
	Type	Lithium-ion polymer battery
Communication	Endurance	7hrs
	GNSS	GPS/Beidou/Galileo/Glonass/QZSS
	WIFI	Wi-Fi 5 dual band (2.4G/5G)
	Bluetooth	BT5.2
Reliability	4G	GSM: B2/3/5/8 WCDMA: B1/2/5/8 TDD: B38/39/40/41N FDD: B1/2/3/4/5/7/8/17/20/28A/28B
	Operate Temperature	-20°C ~ 60°C
	Store Temperature	-30°C ~ 70°C
	Humidity	95%(non-condensing)
	IP Grade	IP65
	NFC	Standard, 13.56MHz, card reading distance: 4cm

Accessory:



Adapter



USB-A to C Cable



Film



Product Features:

- i5-1235U/i7-1255U Processor
- Windows 11 operating system
- High definition and brightness screen
- Low power consumption, fanless
- Supports 12-24V wide voltage range

Processor Solution:

Model	Parameter	Configuration
P10A/P15A/P21A	CPU	i5-1235U/i7-1255U
	Memory	16GB/8GB RAM 128GB/256GB/512GB
	OS support	Windows 11

Specification		
System Parameter	CPU	i5-1235U/i7-1255U
	RAM	16GB/8GB
	Storage	128GB/256GB/512GB
	WIFI	WIFI 6 802.11a,b,d,e,g,h,i,k,n,r,u,v,w,ac,ax (P10A) WIFI 802.11 (a/b/g/n/ac/ax) 2.4G+5G, support WIFI6 (P15A/P21A)
	Bluetooth	BT5.1
4G (Optional)	4G	LTE-FDD: B1/3/5/7/8/20, LTE-TDD: B40, WCDMA: B1/5/8, GSM: 900/1800 (P10A)
	LTE FDD:	B1/B3/B7/B8/B20/B28A, WCDMA: B1/B8, GSM: B3/B8 (P15A/P21A)
I/O	I/O	SIM card x1 (P10A only), USB3.0 x 4, M2x 1 M.2 2280 Standard interface (SATA III /PCIE3.0x4 signal) DC 19V x1 (Support 12~24V) Φ3.5mm standard earphone jack x 1 RJ45 x 2, BD9 x 2, HDMI x 1
	Operating system	Windows 11
	Display	Display Size
Resolution		P10A: 800x1280 P15A/P21A: 1920x1080
Brightness		P10A:700nits,P15A:220nits, P21A:250nits
Touch Panel	Touch Panel	10 point capacitive touch screen, G+G
	Power	DC AC100V~240V, 50Hz/60Hz, Output DC IN 12-24V *1
Product Form	Dimension	P10A: 257.2 x 170 x 45.95 mm P15A: 388.63 x 248.43 x 54.95 mm P21A: 537.02 x 324.02 x 57.60 mm
	Device Color	black
	Weight	1.2 kg (P10A), 2.4 kg (P15A), 5.05kg (P21A)
Reliability	IP Code	IP65 of front panel
	Operate Temperature	-20°C ~ 60°C
	Store Temperature	-30°C ~ 70°C
	Humidity	95%(non-condensing)



Product Features:

- Intel Celeron N5100 Processor
- Windows 11/10
- Low power consumption, fanless
- Front panel IP65 rating
- DC 12V input

Specification		
System Parameter	CPU	Intel®Celeron N5100 CPU, up to 2.80GHz
	RAM	8GB/4GB
	Storage	128GB/256GB/512GB
	WIFI	2.4G+5.8G dual frequency WIFI 802.11 (a/b/g/n/ac) (P10J) 2.4G+5G dual frequency WIFI 802.11 (a/b/g/n/ac) (P15J/P17J/P18J/P21J)
	Bluetooth	BT5.0
	4G (Optional)	P10J: LTE-FDD: B1/3/5/7/8/20, LTE-TDD: B40, WCDMA: B1/5/8 P15J/P21J: LTE-FDD: B1/B3/B7/B8/B20/B28A, WCDMA: B1/B8 GSM: B3/B8 P17J/P18J: LTE-FDD: B1/3/5/7/8/20, LTE-TDD: B40, WCDMA: B1/5/8, GSM:900/1800
I/O	SIM card x1 (P10J only), USB 3.0 x 2+USB 2.0 x 2, DC IN 12-24V x 1, Φ3.5mm standard earphone jack x 1, RJ45 x 2, BD9 x 2, HDMI 2.0a x 1	
Display	Display Size	P10J:10.1" TFT-LCD 10:16 P15J:15.6" TFT-LCD 16:9 P17J:17" TFT-LCD 4:3 P18J:18.5" TFT-LCD 16:9 P21J:21.5" TFT-LCD 16:9
	Resolution	800x1280 (P10J),1920x1080 (P15J/P18J/P21J) 1280x1024 (P17J)
	Brightness	P10J:700nits,P15J:220nits,P17J:500nits, P18J/P21J:250nits
	Touch Panel	10 point capacitive touch screen, G+G
Power	DC	AC100V~240V, 50Hz/60Hz, Output DC IN 12-24V *1
Product Form	Dimension	P10J: 257.2x170x45.95mm P15J: 388.63x248.43x54.95 mm P17J: 401x332x57mm P18J: 457x279 x54mm P21J: 537.02x324.02x57.60 mm
	Device Color	black
	Weight	P10J:1.2 kg, P15J:2.4kg, P17J:4.18kg, P18J:3.22kg, P21J:5.05kg
Reliability	IP Code	IP65 of front panel
	Operate Temperature	-20°C to 60°C
	Store Temperature	-30°C to 70°C
	Humidity	95% Non-Condensing

Processor Solution:

Model	Parameter	Configuration
P10J/P15J/ P17J/P18J	CPU	Intel® Celeron® N5100, Quad-core processor
	Memory	8GB 128GB
	OS support	Windows 11
Model	Parameter	Configuration
P21J	CPU	Intel® Celeron® N5100, Quad-core processor
	Memory	8GB/4GB 128GB/256GB/512GB
	OS support	Windows 11/10



Product Features:

- RK3568 Quad-core Processor
- Android 12 OS
- Low power consumption, fanless
- Front panel IP65 rating
- DC 12V input

Specification		
System Parameter	CPU	RK3568 Quad-core Processor
	RAM	4GB on board
	Storage	64GB
	WIFI	802.11a/b/g/n/ac
	Bluetooth	BT5.0
	2G/3G/4G(Optional)	P10R/P17R/P18R: LTE-FDD: B1/3/5/7/8/20, LTE-TDD: B40, WCDMA: B1/5/8, GSM: 900/1800 P15R/P21R: LTE-FDD: B1/B3/B7/B8/B20/B28A, WCDMA: B1/B8, GSM: B3/B8
I/O	SIM card x1/Micro SD card x1 (P10R only) USB3.0 x 1 + USB3.0 x 1 OTG + USB2.0 x 2, DC IN 12-24V x 1 Φ3.5mm standard earphone jack x 1 RJ45 x 1, BD9 x 2, HDMI x 1	
Display	Operating system	Android 12
	Display Size	P10R:10.1" TFT-LCD 10:16, P15R:15.6" TFT-LCD 16:9 P17R:17" TFT-LCD 4:3, P18R:18.5" TFT-LCD 16:9 P21R:21.5" TFT-LCD 16:9
	Resolution	P10R:800x1280, P15R/P18R/P21R:1920x1080 P17R:1280x1024
	Brightness	P10R:700nits,P15R:220nits, P17R:500nits,P18R/P21R:250nits
Touch Panel	10 point capacitive touch screen, G+G	
Power	DC	AC100V~240V, 50Hz/60Hz, Output DC IN 12-24V *1
Product Form	Dimension	P10R:257.2x170x45.95mm, P15R:388.63x248.43x54.95 mm P17R:401x332x57mm, P18R:457x279 x54mm P21R:537.02x324.02x57.60 mm
	Device Color	black
	Weight	P10R:1.2 kg, P15R: 2.4kg, P17R: 4.18kg, P18R: 3.22kg, P21R: 5.05kg
Reliability	IP Code	IP65 of front panel
	Operate Temperature	-20°C to 60°C
	Store Temperature	-30°C to 70°C
	Humidity	95% Non-Condensing

Processor Solution:

Model	Parameter	Configuration
P10R/P15R/ P17R/P18R/ P21R	CPU	RK3568 Quad-core Processor
	Memory	4GB 64GB
	OS support	Android 12



Product Features:

- 10.1" High-Brightness Display
- RK3568 Quad-Core Processor
- Android 12 OS
- Optional Barcode Scanner Module
- Front Panel IP65 Rating

Specification		
Basic Parameter	Dimension	315x 168x 38mm
	Weight	TBD
	Color	Black
	LCD	10.1" IPS, 800*1280, 700 nits
	Touch Panel	10-point tempered glass capacitive panel
I/O	SIM *1 TF*1 (Built-in), USB3.0*1 + USB3.0*1 OTG+USB2.0*2 DC 12V *1+Phoenix terminal, RJ45 *1	
	WIFI	WIFI 802.11(a/b/g/n/ac) 2.4G+5G
	Bluetooth	BT5.0
Communication	4G (Optional)	M.2: B1/B3/B5/B7/B8/B20, LTE-TDD: B40, WCDMA: B1/B5/B8, GSM: 900/1800
	IP Code	IP65 Front Panel
Reliability	Operate Temperature	-20°C to 60°C
	Store Temperature	-30°C to 70°C
	Humidity	95% Non-Condensing
Functional Module	LED Indicator Light	Built in
	NFC	Frequency: 13.56M+125K
	2D	Optional
	Front Camera	Optional

Processor Solution:

Model	Parameter	Configuration
D10R	CPU	RK3568 Quad-Core
	Memory	4GB RAM 64GB
	OS support	Android 12

Industry Applications



Application cases

Oil prospecting



8-inch rugged tablet is used in petroleum exploration detection, excavation and pipeline safety detection. High-precision positioning and protection function, can withstand various harsh environments.

Outdoor mapping



6-inch rugged handheld and 8-inch rugged tablet, mainly using 4G, WiFi, Bluetooth and other functions to transmit data, as well as GPS positioning function and protection performance.

Intelligent forklift management



10.1-inch rugged tablet can be used for warehouse management. With vehicle holder, 1D/2D Scanning, NFC, and highlight screen.

Communication base station management



12.2-inch rugged tablet with high-precision positioning and protection function can withstand various harsh environments.

Warehouse management



EM-I16H, integrated with in-house warehouse management software, enables end-to-end material control from raw materials to finished products.

Food safety



P15J Panel PC safeguards meat products' safety supervision and traceability.

Smart Factory



Electronics factory enhances quality and delivery efficiency with ESOP and MES integration.

Vehicle tracking



EM-Q51J + UHF handle and EM-Q11 enable automakers to achieve precise end-to-end vehicle scheduling and tracking.

GPR detection



EM-I10A empowers the client's IDS (Stream DP Solution) for high-efficiency GPR detection.

Vineyard management

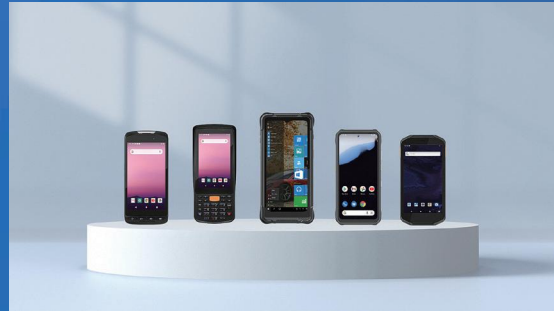


The client improves vineyard management with V10J, ensuring excellence in every bottle.

PRODUCT GALLERY



Outdoor Rugged



Rugged Handhelds



Rugged Tablet PCs



Rugged Notebooks



Industrial PCs



Vehicle PCs



Customized Devices

Software

Android



Windows



MDM

- Device Management
- Device Control
- Location and Geofencing
- App Management
- File Management
- OTA Updates

Productivity Tools

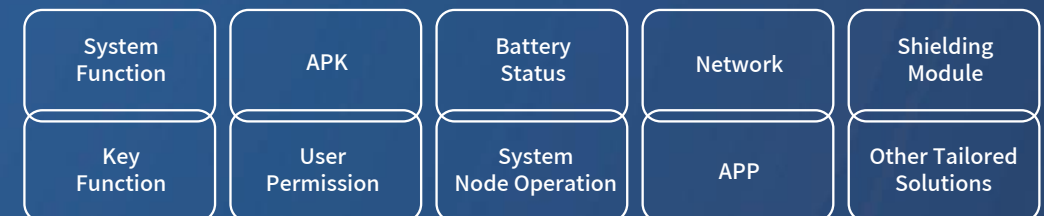
- Kiosk Mode
- Settings Extension
- Key Mapper
- Broadcast Receiver
- OTA Updater
- Barcode Scanner

Control Center











Customization Services

- 1-Appearance — Logo Engraving
- 2-Packaging — Color Box/Packaging Customization
- 3-Structure — ID/MD Design
- 4-Hardware — PCBA/Module Development & Customization
- 5-Software










ONLINE PROMOTION CHANNELS

Domestic

- | | |
|--|---|
|  Website:
www.emdoor.net |  TikTok:
Emdoorinfo |
|  WeChat:
Emdoorinfo |  bilibili:
Emdoorinfo |
|  WeChat Official Account:
Emdoorinfo |  1688 Store:
https://emdoor.1688.com |
|  WeChat Video:
Emdoorinfo |  E-Mail:
marketing.info@emdoor.com |

Overseas

- | | |
|--|---|
|  Website:
www.emdoorrugged.com |  YouTube:
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|  Wechat:
Emdoorinfo |  DirectIndustry:
Emdoor Information Co., Ltd. |
|  LinkedIn:
Emdoor Information |  Alibaba:
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Emdoor Info is committed to integrating **rugged computing** with various sectors, enhancing productivity, and empowering **industries for intelligent transformation and upgrades.**



Leading A-Share Listed Company in Rugged Terminals

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