



Rugged Mobile Computer Product Catalog



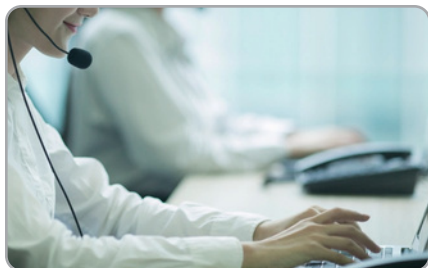


COOPERATIVE PARTNERS



AFTER-SALES SUPPORT

24/7 Care Line



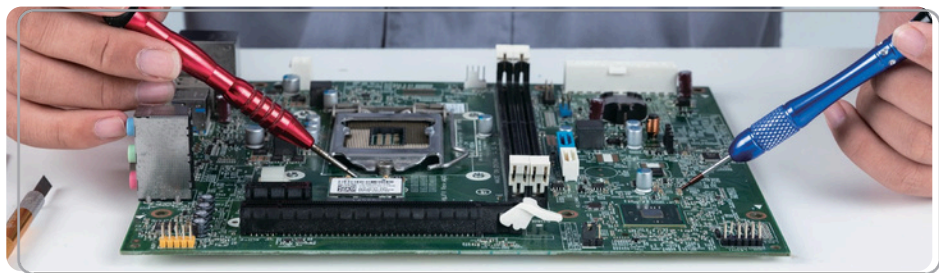
Tel: +86-(0)755-2372 2880

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					
Rugged Handheld	Model	Size	CPU	OS	IP Grade
	T40	4"	ARM Octa-Core	Android 11	IP65
	T50	5"	ARM Octa-Core	Android 11	IP65
	R51	5"	ARM Octa-Core	Android12	IP65
	H68T	6.56"	ARM Octa-Core	Android 14	IP68
	Q51	5"	ARM Octa-Core	Android 9	IP65
Rugged Tablet	I61J	6.5"	Intel Jasper Lake Quad-Core	Windows 10/11	IP67
	T81X	8"	ARM Octa-Core	Android 14/12	IP65
	Q865M/T86X	8"	ARM Octa-Core	Android 12/11	IP67
	I87J/T87X	8"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 10/Android 12	IP65
	T89/Q89	8"	ARM Octa-Core	Android 14/Windows 11	IP65
	I88N/Q885M/R88	8"	Intel Alder LAKE N100/ARM Octa-Core/ RK3568	Windows 11/Android 12,14	IP65
	I18N/Q185M	10.1"	Intel Alder LAKE N100/ARM Octa-Core	Windows 11/Android 14	IP65
	I10J/I10A	10.1"	Intel Jasper Lake Quad-Core / Intel Alder Lake	Windows 11/10	IP65
	Q115M/T11X	10.1"	ARM Octa-Core	Android 11,12,14	IP65
	I16J/R16	10.1"	Intel Atom Quad-Core / Intel Jasper Lake Quad-Core / RK3568	Windows 11/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
	R18/R18	10.1"	RK3568	Android 12	IP65
	T19/Q19	10.1"	ARM Octa-Core	Android 14/Windows 11	IP65
	I20J/I20A	12.2"	Intel Jasper Lake/Intel Alder Lake	Windows 11/Windows 10	IP65
Rugged Notebook	I14M/I14A	14"	Intel CoreTM Ultra/Alder Lake i5/i7	Windows 11/10	IP65
	I22J/Q225M	12.2"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 11/Android 11	IP65
	X14M/X14A	14"	Intel CoreTM Ultra/Alder Lake i5/i7	Windows 11/10	IP65
In-Vehicle PC	X15M/X15A	15.6"	Intel CoreTM Ultra/Alder Lake i5/i7	Windows 11/10	IP65
	V80J/V80T	8"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 10/Android 12	IP65
	V10J/V10T	10.1"	Intel Jasper Lake Quad-Core / ARM Octa-Core	Windows 11/Android 12	IP65
Industrial Panel PC	V12R	10.1"	RK3568	Android 12+ Linux	IP67
	P10A/P15A/P17A/P18A/P21A	10.1"-21.5"	Alder Lake i5/i7	Windows 11	IP65
	P10J/P15J/P17J/P18J/P21J	10.1"-21.5"	Intel Celeron	Windows 11	IP65
	P10R/P15R/P17R/P18R/P21R	10.1"-21.5"	RK3568	Android 11	IP65
	D10R	10.1"	RK3568	Android 12	IP65 Front Panel
	B10A/B10J/B10R	/	Alder Lake i5/i7/Intel Jasper Lake/RK3568	Windows 11/Android 12	/
	PT21	21.5"	Realtek RTD25XX	/	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.

Rugged Handheld EM-T40



Specification		
Basic Parameter	Dimension	162.4 x 72.8 x 19.4 mm
	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
Battery	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 (Base Charge) x 1, POGO PIN2 6pin (connecting UHF and Scanner Gun) x 1
	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/2A
	Capacity	3.8V/4500mAh
Communication	Type	External removable lithium ion battery
	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
Reliability	NFC	Support, 13.56MHz, Support ISO/IEC 14443A/B15693/18092/mifare protocols Card reading distance: 4cm
	Operate Temperature	-10 °C ~ 50 °C
	Store Temperature	-20 °C ~ 60 °C
	Humidity	95% Non-Condensing
2D	IP Grade	IP65
	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

Rugged Handheld EM-T50



Product Features:

- Support Android 11
- Battery detachable
- Optional 2D
- Support GPS, Beidou, Glonass
- IP65 Grade
- Various accessories are available

Processor Solution:

Model	Performance Parameter
EM-T50	ARM OCTA Core CPU Android 11/11 GMS 4GB RAM 64GB ROM

Specification		
Basic Parameter	Dimension	157.4 x 74.6 x 24.2 mm
	Weight	260 g
	Device Color	black
	LCD	5" IPS 16:9, 720*1280, 350 nits
	Touch Panel	5 point capacitive, G+FF, Corning gorilla glass
	Camera	Front 5.0MP, Rear 13.0MP, Automatic focusing, PDAF support
Battery	I/O	TF Card x 1, MAX 128GB SIM Card x 1 Micro USB 2.0 x 1 Pogo Pin (Base Charge) x 1 Φ3.5mm standard earphone jack x 1
	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/2A
	Capacity	3.8V/4000mAh
Communication	Type	Removable polymer lithium battery
	Endurance	10.5hrs
	GNSS	GPS, Glonass, Beidou(G+G+B)
	WIFI	2.4G+5G, WIFI 802.11(a/b/g/n/ac), Support AP seamless roaming
	Bluetooth	BT 5.0 LE, Transmission distance: 10m
	2G/3G/4G (Optional)	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
Reliability	NFC	Built-in, 13.56MHz, Support ISO/IEC 14443A/B15693/18092/mifare protocols Card reading distance: 4cm
	Operate Temperature	-10 °C ~ 50 °C
	Store Temperature	-20 °C ~ 60 °C
	Humidity	95% Non-Condensing
2D	IP Grade	IP65
	Support	Optical resolution: 5mil/ scan speed: 50 times/s

Accessories:



Lanyard



Docking Charger



Hand Clip holder



Removable Battery

Rugged Handheld R51



Specification		
Basic Parameter	Dimension	147.7 x 74 x 19 mm
	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 (EM-R51)
	I/O	Type C 2.0 x1 (Charging and data transmission) 3.5mm Standard Earphone Jack x1 (American-Standard) TF Card *1, Max: 512GB POGO PIN 2pin *1 (Charging Base)
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/2A
	Capacity	3.85V/4000mAh
	Type	Built-in Lithium-ion polymer battery
Communication	Endurance	About 7 hrs
	GNSS	TBD (EM-R51)
	WIFI	2.4G+5G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT5.0 (BLE) Transmission distance: 10m
	2G/3G/4G	CMCC 4M LTE B1,B3,B5,B7,B8,B20,B38,B39,B40,B41 WCDMA B1/B2/B5/B8 GSM B2/B3/B5/B8
Reliability	Operate Temperature	-10 °C ~ 55 °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 12
- Support NFC
- 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

Rugged Handheld EM-H68T



Specification		
Basic Parameter	Dimension	170.2x80.7x14mm
	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	Type-C x 1 SIM card x1 / TF card x1 Pogo Pin x 1
Battery	Power	33W Fast Charger Adapter
	Capacity	3.85V/5800mAh
	Type	Built-in Polymer Lithium-ion Battery
Communication	Endurance	17hrs
	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
Reliability	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)
	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% Non-Condensing
Data Acquisition	IP Grade	IP68
	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



Hand Clip holder



Docking Charger



Scanning Trigger

Rugged Handheld EM-I61J



- 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
 - IP67-grade waterproof and shockproof

Processor Solution:

Model	Performance Parameter
EM-I16J	Intel Celeron N5100 CPU Windows 10/11 8GB RAM 128GB ROM

Specification			
Basic Parameter	Dimension	183.1x 88.6x24.1mm	
	Weight	470g	
	Device Color	black	
	LCD	6.5 inch IPS 20:9, 1600x720, 500nits	
	Touch Panel	5 point G+F+F capacitive touch screen Corning® Gorilla® Glass	
	Camera	Front 5.0MP Rear 8.0MP automatic focusing	
	I/O	TYPE-C 2.0x1 OTG,Standard USB-A Port/Data Transmission (3.0) TFx1, Max 512GB, Nano-SIM * 1 Pogo Pin 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(BLE) Transmission distance: >10m	
	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	IP67	
2D	Support	Optical resolution: 5mil/ scan speed: 50 times/s	

Accessories:



Rugged Tablet EM-T81X



- 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

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	5 point G+G capacitive touch screen	
	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/ SIM card x 1/TF card x 1/ 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	3.7V/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	
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	

Accessories:



Rugged Tablet EM-Q865M/T86X



Product Features:

- Optional NFC, 1D/2D
- IP67 Grade
- Optional 5G
- Rich accessories

Processor Solution:

Model	Performance Parameter
EM-Q865M	ARM OCTA Core CPU Android 11 8GB RAM 128GB ROM
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 21.5 mm
	Weight	715 g
	Device Color	black
	LCD	8" IPS FHD 16:10, 800*1280, 700 nits (EM-T86X) , 8" IPS FHD 16:10, 1200*1920, 550 nits (EM-Q865M)
	Touch Panel	5-point capacitive, Corning Gorilla glass, G+G, handwriting support (Q865M) 10-point capacitive, Corning Gorilla glass, G+G, handwriting support (T86X)
	Camera	Front 5.0MP, Rear 13.0MP, Auto focus with flash
Battery	I/O	Standard USB3.0 *1 (only for Q865M), USB2.0 *1 (only for T86X), Type C *1, 3.5mm Standard Earphone Jack *1 HDMI 1.4a Type C *1 (only for Q865M), SIM card *1, TF card *1, Max: 256GB 3.5mm Power Port *1, 12PIN Pogo Pin *1
	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/3A
	Capacity	3.7V/8500mAh
Communication	Type	Built-in Lithium-ion polymer battery
	Endurance	10hrs (EM-Q865M), 9hrs (EM-T86X)
	GNSS	GPS L1&L5/Beidou/Glonass/Galileo/NavIC/IRNSS (Q865M) GPS/GLONASS/BEIDOU/Galileo/QZSS/SBAS (T86X)
Reliability	WIFI	2.4G+5G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT 5.0 (EM-I87J) BT 5.1 (EM-T87X)
	2G/3G/4G/5G (Optional)	5G NR: N1/N41/N78/N79, TDD-LTE: B34/B38/B39/B40/B41, FDD-LTE: B1/B3/B5/B7/B8/B20, TD-SCDMA: B34/B39, WCDMA: B1/B5/B8, EVDO: BC0, CDMA: BC0, GSM: B5/B3/B8 (EM-Q865M) GSM: B2+B3+B5+B8, WCDMA: B1+B2+B5+B8, TDD: B38+B39+B40+B41N FDD: B1+B2+B3+B4+B5+B7+B8+B17+B20+B28a+B28b (EM-T86X)
	Operate Temperature	-20 °C ~ 55 °C (Q865M), -20 °C ~ 60 °C (T86X)
	Store Temperature	-30 °C ~ 70 °C (Q865M) , -20 °C ~ 00 °C (EM-T86X)
	Humidity	95% Non-Condensing
Data Acquisition	IP Grade	IP67
	NFC	Support, 13.56MHz, Support ISO/IEC 14443A protocol , Card reading distance: 4cm,
Data Acquisition	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s

Rugged Tablet EM-I87J/T87X



Product Features:

- Optional 2D
- Support GPS, Glonass
- Optional NFC
- IP65 Grade
- Optional 4G

Processor Solution:

Model	Performance Parameter
EM-I87J	Intel Celeron N5100 CPU Windows 10 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 20 mm
	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	5 point capacitive touch screen
	Camera	Front 5.0MP, Rear 8.0MP, auto focus, with flashlight function (EM-I87J), Front 5.0MP, Rear 13.0MP (EM-T87X)
Battery	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 1.4a x 1 (EM-I87J) 12pin Pogo Pin x 1 Φ3.5mm standard earphone jack x 1
	Power	PD Fast Charger Adapter (EM-I87J) DC 5V/3A (EM-T87X)
	Capacity	7.6V/5000mAh (EM-I87J), 3.8V/5000mAh (EM-T87X)
Communication	Type	Removable polymer lithium battery
	Endurance	7hrs (EM-I87J), 9hrs (EM-T87X)
	GNSS	GPS, GLONASS (EM-I87J) GPS/GLONASS/BEIDOU/Galileo/QZSS/SBAS (T87X)
Reliability	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT 5.0 (EM-I87J) BT 5.1 (EM-T87X)
	4G (Optional)	LTE FDD: 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/B2/B5/B8, TDD: B38/B39/B40/B41, FDD: B1/B2/B3/B4/B5/B7/B8/B17/B20/28A/28B (EM-T87X)
Data Acquisition	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
Data Acquisition	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s

Accessories:



Accessories:



Rugged Tablet EM-T89/Q89



Specification		
Basic Parameter	Dimension	219 x 139 x 12.5 mm
	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
Battery	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
	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
Communication	Endurance	About 11hrs (EM-T89),About 10.5hrs (EM-Q89)
	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/5G (Optional)	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
	Reliability	Operate Temperature -10 °C ~ 50 °C Store Temperature -20 °C ~ 60 °C Humidity 95% Non-Condensing IP Grade IP65
Data Acquisition	NFC (EM-T89)	T89: choose one from 5G
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s, choose one from 5G(T89)

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

Rugged Tablet EM-I88N/Q885M/R88



Specification		
Basic Parameter	Dimension	236.7 x 155.7 x 20.8mm (EM-R88)
	Weight	820g (Q885M)
	Device Color	Black
	LCD	8" IPS 16:10, 1200*1920, 550 nits (EM-I88N/Q885M); 800*1280,1000 nits (Optional Q885M) 8" IPS 16:10, 800*1280, 700 nits (EM-R88)
	Touch Panel	5-point capacitive, G+G, above 7H hardness (EM-I88N/Q885M) 10-point capacitive, G+G, above 7H hardness (EM-R88)
	Camera	Front 5.0MP, Rear 8.0MP (I88N/R88) Front 5.0MP, Rear 13.0MP, Supports autofocus with flashlight (Q885M)
Battery	I/O	USB 3.0 x1, Type C x 1 Φ3.5mm Standard earphone jack x 1 TF x 1, SIM card x 1 (I88N/R88), Nano-SIM x 2/Micro SD x 1 +Nano-SIM x 1 (Q885M) DC 12V 4A Power port (I88N), DC supports 5V/4A charging (Q885M/R88) HDMI x 1, 12PIN Pogo Pin x 1
	Power	AC100V to 240V, 50Hz/60Hz, Output wall-mount DC 12V/4A (I88N) DC output 5V/4A (Q885M/R88)
	Capacity	7.6V/5000mAh (I88N), 3.8V/10000mAh (Q885M/R88)
	Type	Removable polymer lithium battery
Communication	Endurance	7.5hrs (I88N), 8hrs (Q885M), 11hrs (R88)
	GNSS	GPS+GLONASS (I88N), GPS/ GLONASS/ BDS (Q885M), GPS+Beidou (R88)
	WIFI	WIFI6 802.11 (a/b/g/n/ac/2/ax 1x1), frequency 2.4G+5.8G (I88N) Wi-Fi 6E& DBS, IEEE 802.11a/ b/ g/ n/ ac/ ax (Q885) WIFI 802.11(a/b/g/n/ac), frequency 2.4G+5G, dual-band WIFI (R88)
	Bluetooth	BT5.2 (I88N/Q885M), BT5.0 (R88)
Reliability	2G/3G/4G	I88N:(European Standard) LTE FDD: B1/B3/B5/B7/B8/B20/B28 , LTE-TDD B38/B40/B41 Q885M: 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/ 423G: B1/ 2/ 4/ 5/ 6/ 8/ 19, 2G: B2/ 3/ 5/ 8 R88: FDD-LTE: B1/B3/B5/B7/B8/B20 , TDD-LTE: B40
	Operate Temperature	-20 °C ~ 60 °C(I88N/Q885M) -15 °C ~ 55 °C(R88)
	Store Temperature	-30 °C to 70 °C
	Humidity	95% Non-Condensing
Data Acquisition	IP Grade	IP65 (EM-R88)
	NFC	Optional, 13.56MHz, Support ISO/IEC 14443A protocol Card reading distance: 4 cm
	2D(EM-R88)	Optional, Optical resolution: 5mil/scan speed: 50 times/s

Product Features:

- Optional 2D
- Support GPS, Glonass
- Optional NFC
- IP65 Grade
- 10000mAh high capacity battery

Processor Solution:

Model	Performance Parameter
EM-R88	RK3568 Quad-Core 2.0GHz Android 12 4GB RAM 128GB ROM
EM-I88N	Intel Alder LAKE N100 Windows 11 8GB RAM 128GB
EM-Q885M	ARM Octa-Core Android 14/GMS 8GB RAM 128GB

Accessories:



Hand-strap



Docking Charger (EM-R88)



Vehicle Mount



Vehicle Mount (EM-R88)



Car Charger



Quad Charging

Rugged Tablet EM-I18N/Q185M



- Product Features:
- Made of wear-resistant material.
 - Supports Windows 11/Android 14 OS.
 - 10.1” HD screen with 10-point tempered glass capacitive touchscreen.
 - Equipped with enhanced Wi-Fi 6E network.
 - TDD and FDD multi-mode.
 - Supports both SA and NSA network deployment.

Processor Solution:

Model	Performance Parameter
EM-I18N	Intel Alder LAKE N100 Windows 11 8GB/16GB RAM 128GB
EM-Q185M	ARM Octa Core Android 14/GMS 8GB RAM 128GB

Specification		
Basic Parameter	Dimension	274.9x 188.7x 22.2mm
	Weight	1140g (I18N), 1020g (Q185M)
	Device Color	Black
	LCD	10.1" IPS 16:10, 1200*1920, 1000 nits
	Touch Panel	10-point capacitive, G+G, Above 7H hardness, Scratch-resistant, COF, Supports glove touch.
	Camera	Front 5.0MP, Rear 8.0MP (EM-I18N) Front 5.0MP, Rear 13.0MP, Supports autofocus with flashlight (EM-Q185M)
Battery	I/O	USB 3.0 x1, Type C x1, Earphone jack x1 TF *1, SIM card *1 (I18N), Nano-SIM x 2/Micro SD x 1 +Nano-SIM x 1 (Q185M) DC 12V 4A Power port (I18N), DC supports 5V/4A charging (Q185M) HDMI *1, 12PIN Pogo Pin *1,RJ45 100M Network port *1
	Power	AC100V to 240V, 50Hz/60Hz Output wall-mount DC 12V/4A (I18N) DC input 100-240VAC0.5A50/60Hz, DC output 5V/4A (Q185M)
	Capacity	7.6V/5000mAh (I18N), 3.8V/10000mAh (Q185M)
	Type	Removable Li-polymer battery
Communication	Endurance	6.5hrs (I18N), 6hrs (Q185M)
	GNSS	GPS, Glonass (I18N), GPS/ GLONASS/ BDS (Q185M)
	WIFI	WiFi6 802.11(a/b/g/n/ac2/ax1x1) frequency 2.4G+5.8G (I18N) Wi-Fi 6E&DBS. IEEE 802.11a/ b/ g/ n/ ac/ ax, Wi-Fi 2 × 2 MU-MIMO (Q185M)
	Bluetooth	BT5.2
Reliability	2G/3G/4G/5G (Optional)	I18N 4G: European Standard: LTE FDD: B1/B3/B5/B7/B8/B20/B28 LTE-TDD B38/B40/B41 Q185M: 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 to 60 °C
	Store Temperature	-30 °C to 70 °C
	Humidity	95% Non-Condensing
Data Acquisition	IP Grade	IP65
	NFC (EM-T895/T89)	13.56MHz, Card reading distance: 4cm (I18N: optional, Q185M: standard) Fingerprint: Standard
	2D	Optional, Optical resolution: 3mil, scan speed: 75 times/s
	Extension Module (1 of 3)	USB 2.0 x1/RJ45x1/RS232x1 (Only for I18N)

Accessories:



Hand-strap



Docking Charger



Vehicle Mount



Quad-Charging Dock

Rugged Tablet EM-I10J/I10A



- Product Features:
- Support Windows 11/10
 - Support GPS, Beidou, Glonass
 - Optional NFC
 - IP65 Grade
 - Corning gorilla glass
 - Multiple extended function modules

Processor Solution:

Model	Performance Parameter
EM-I10J	Intel Celeron N5105 2.9GHz CPU Windows 11 8GB/16GB RAM 128GB ROM
Model	Performance Parameter
EM-I10A	Intel Core i5-1235U/i7-1255U CPU Windows 11/10 16GB RAM 128GB ROM

Specification		
Basic Parameter	Dimension	289.9 x 196.7 x 27.4 mm
	Weight	1140 g
	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)
	I/O	TF Card x 1 Max 128GB, SIM Card x 1 USB 3.0 x 1, 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
Battery	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
	Endurance	5.5hrs+30min (EM-I10J), 4.5hrs+30min (EM-I10A)
Communication	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	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	Support
Expansion module (One out of four)	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

Accessories:



Docking Charger



Hand-strap



Carry Handle



Removable Battery



Vehicle Mount



Stylus



Quad Charging

Rugged Tablet EM-Q115M/T11X



Product Features:

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

Specification		
Basic Parameter	Dimension	275.7 x 187.5 x 24.5 mm
	Weight	970g (EM-Q115M), 1000g (EM-T11X)
	Device Color	black
	LCD	10.1" IPS 16:10, 800*1280, 700nits (EM-I11H/Q11/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 x1 (EM-Q115M) 12PIN Pogo Pin *1
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 5V/3A
	Capacity	3.7V/8000mAh
	Type	Built-in Lithium-ion polymer battery
Communication	Endurance	8hrs (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 to 50 °C (Q115M), -20 °C to 60 °C (T11X)
	Store Temperature	-20 °C to 60 °C (Q115M), -30 °C to 70 °C (T11X)
	Humidity	95% Non-Condensing
	IP Grade	IP65
Expansion Module	NFC	ISO/IEC 14443A, Card reading distance: 4cm
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s

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

Rugged Tablet EM-I16J/R16



Product Features:

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

Specification		
Basic Parameter	Dimension	280.4 x 187 x 26.6 mm
	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 *1, Type C *1, Earphone Jack *1, HDMI 2.0a mini *1 (Only for EM-I16J) USB2.0 *2 (Only for EM-I16J), DB9 *1 (Only for EM-I16J) SIM card *1, TF card *1, DC 12V 4A power port *1 12PIN Pogo Pin *1, RJ45 network port *1
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, DC 19V/3.42A (EM-I16J/R16)
	Capacity	7.4V/5000mAh (EM-I16J/R16)
	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
	IP Grade	IP65
Data Acquisition	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

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	274.9 x 188.7 x 23.1 mm
	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- $\text{\tiny{E}}$ x 1 (EM-T17X/T17X-RTK) , Type-C x 1 (EM-T17X/T17X-RTK), Type-C 3.0 x 1 (EM-I17J/I17J-EX),12pin Pogo Pin x 1, HDMI 2.1a x 1 (EM-I17J/I17J-EX), Φ 3.5mm standard earphone jack x 1
Battery	Power	PD Fast Charger Adapter (EM-I17J/I17J-EX)
	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), 9hrs (EM-T17X), 7hrs(EM-T17X-RTK)
	GNSS	GPS+GLONASS(EM-I17J/I17J-EX), GPS+GLONASS+Beidou(EM-T17X) EM-T17X(RTK):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: 0.8cm + 1ppm, Elevation: 1.5cm + 1ppm, Data update rate :1Hz/ 10Hz, First cold start positioning time: 30s
	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac)
Reliability	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)
	Operate Temperature	-20 °C ~ 60 °C
Data Acquisition	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% Non-Condensing
	IP Grade	IP65
Expansion Module (One out of three)	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)
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s
	RJ45	10/100M Ethernet port
	DB9	RS232 interface
	USB-A	USB 2.0

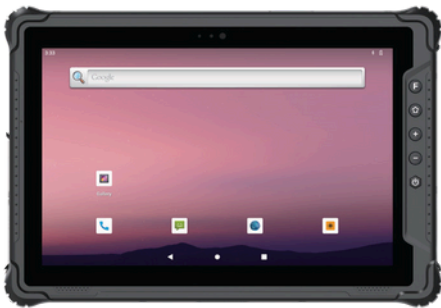
Product Features:

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

Accessories:



Product Features:

- Optional 2D
- Support GPS, Glonass, Beidou
- Optional NFC
- IP65 Grade
- Optional 2G/3G/4G

Processor Solution:

Model	Performance Parameter
EM-R88	RK3568 CPU Android 12 4GB RAM 128GB ROM

Accessories:



Specification		
Basic Parameter	Dimension	274.9 x 188.7 x 22.2 mm
	Weight	1028 g
	Device Color	Black
	LCD	10.1 inch IPS 16:10, 800×1280, 700 nits
	Touch Panel	10 point G+G capacitive touch screen
	Camera	Front 5.0MP Rear 8.0MP
	I/O	USB 3.0 Type-A x 1, USB Type-C x 1, SIM Card x 1, TF Card x 1 (MAX 512GB), Φ 3.5mm standard earphone jack x 1, DC jack x 1, HDMI x 1, 12pins Pogo Pin x 1
Battery	Power	AC100V ~ 240V, 50Hz/60Hz, Output DC 5V/4A
	Capacity	3.8V/10000mAh
	Type	Removable Li-polymer battery
Communication	Endurance	8hrs
	GNSS	Support GPS/Galileo/BeiDou (G+G+B)
	WIFI	WiFi 802.11 a/b/g/n/ac (2.4G+5G)
Reliability	Bluetooth	BT5.0 Transmission distance: 10 m
	2G/3G/4G (Optional)	GSM: 900/1800 WCDMA: B1/B5/B8 TDD: B40 FDD: B1/B3/B5/B7/B8/B20
	Operate Temperature	-20 °C ~ 60 °C
Data Acquisition	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% Non-Condensing
	IP Grade	IP65
	NFC (Optional)	13.56MHz, Support ISO/IEC 14443A, Card reading distance: 4 cm
	2D(Optional)	Optical resolution: 5mil/scan speed: 50 times/s

Rugged Tablet EM-T19/Q19



Product Features:

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

Specification		
Basic Parameter	Dimension	263 x 177 x 10.5 mm
	Weight	650 g (EM-T19), 700 g (EM-Q19)
	Device Color	black
	LCD	10.1" IPS 16:10, 1200*1920, 400 nits
	Touch Panel	10 point capacitive, G+G
	Camera	Front 5.0MP, Rear 13.0MP, Auto focus
Battery	I/O	TF/SIM card, 2 out of 3 card slot Nano SIM card x 1 + Mirco SIM x 1 or Mirco SIM x 1+ TF card x 1 (EM-T19) TF card x 1+Mirco SIM x 1 or single Mirco SIM or single Nano SIM (EM-Q19) Type C x 1, 12pin Pogo Pin x 1
	Power	USB Type-C port, supports fast charging PE+2.0, Maximum 9V/2A, 18W (EM-T19) USB Type-C port, 12V/3A, 36W (EM-Q19)
Communication	Capacity	3.8V/9500mAh (EM-T19), 7.6V/4750mAh (EM-Q19)
	Type	Built-in Lithium-ion polymer battery
Reliability	Endurance	About 12hrs (EM-T19),About 11hrs (EM-Q19)
Data Acquisition	GNSS	GPS/GLONASS/BEIDOU/Galileo/QZSS/SBAS (T19) GPS/Galileo/GLONASS/BeiDou (Q19)
	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/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: European version frequency band: GSM: NA WCDMA:B1+B3+B5+B8, FDD: B1+B3+B5+B7+B8+B20+B28(a+b) TDD: B38+B39+B40+B41 (Full band) Optional, American version band: GSM: NA WCDMA:B2+B4+B5 FDD: B2+B4+B5+B12+B13+B14+B17+B25+B26+B30+B66+B71 TDD: B38+B41N
	Operate Temperature	-10 °C ~ 50 °C
	Store Temperature	-20 °C ~ 60 °C
Expansion module (One out of five)	Humidity	95% Non-Condensing
	IP Grade	IP65
NFC	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

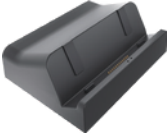
Processor Solution:

Model	Performance Parameter
EM-T19	ARM Octa-Core CPU Android 14 GMS 8GB RAM 128GB
Model	Performance Parameter
EM-Q19	ARM OCTA Core CPU Windows 11 8GB RAM 128GB ROM

Accessories:



Hand-strap



Docking Charger



Removable keyboard

Rugged Tablet EM-I20J/I20A



Product Features:

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

Specification		
Basic Parameter	Dimension	339.3 x 230.3 x 26mm
	Weight	1500g
	Device Color	black
	LCD	12.2 inch FHD 16:10, 1920×1200, 650nits (EM-20J) 12.2 inch IPS 16:10, 1920×1200, 650nits (EM-I20A)
	Touch Panel	5 point G+G capacitive touch screen (EM-20J), 10 point G+G capacitive touch screen, 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	I/O	USB 3.0 Type-A x 1, USB Type-C x 1, SIM Card x 1, TF Card x 1, HDMI 2.0a Mini x 1 (EM-I20J), HDMI 2.0a Mini x 1 (EM-I20A), 12pins 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/65W
Communication	Capacity	7.4V/700mAh, 7.4V/6300mAh (EM-I20J/I20A)
	Type	Double Lithium-ion polymer battery
Reliability	Endurance	4.5hrs+30min (EM-I20A), 4hrs+30min (EM-I20J)
Data Acquisition	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 (EM-I20A)
	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 70 °C
Expansion module (One out of five)	Humidity	95% Non-Condensing
	IP Grade	IP65
NFC	NFC	Optional 13.56MHz, Card reading distance: 4cm
RJ45	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	USB 2.0 x 1
	2D	Support, Optical resolution: 5mil/scan speed: 50 times/s

Processor Solution:

Model	Performance Parameter
EM-I20J	Intel Celeron 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:



Docking Charger



Hand-strap



Carry Handle



Removable Battery



Vehicle Mount



Stylus



Quad Charging

Rugged Tablet EM-I14M/I14A



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 11/10 16GB/32GB RAM 256GB SSD
Model	Performance Parameter
EM-I14A	Intel i5-1235U/i7-1255U Windows 11/10 16GB/32GB RAM 256GB/512 Removable

Specification		
Basic Parameter	Dimension	366.2x246.9x24.8mm
	Weight	2230 g
	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)
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 100-240VAC0.5A50/60Hz,DC19V/3.78A 71.82W
	Capacity	4850mah/11.55V (56WH) +1300mah/11.1V (14.4WH)
	Type	Double Lithium-ion polymer battery
Communication	Endurance	8+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 EM-I14A 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

Accessories:



Removable Battery



Handle

Rugged Notebook EM-I22J/Q225M



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-Q225M	ARM OCTA Core CPU Android 11 8GB RAM 128GB ROM

Specification		
Basic Parameter	Dimension	319.6 x 216 x 24.3 mm
	Weight	1500 g
	Device Color	black
	LCD	12.2" IPS 16:10, 1920*1200, 280 nits (EM-Q225M) 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-Q225M)
Battery	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-Q225M) Type-C x 1, HDMI 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-Q225M) Φ4mm Power connector x 1 (EM-I22J)
	Power	AC100V ~ 240V, 50Hz/60Hz, DC 19V/3.42A (EM-I22J), DC 5V/4A (EM-Q22M)(EM-Q225M)
	Capacity	7.4V/6300mAh+1000mAh (EM-I22J) 3.7V/12600mAh (EM-Q225M)
	Type	Removable polymer lithium battery
Communication	Endurance	8.5hrs+1hrs (EM-I22J), 7hrs (EM-Q225M)
	GNSS	GPS+Glonass (EM-I22J/Q225M), GPS+Glonass+Beidou
	WIFI	2.4G+5.8G, WIFI 802.11(a/b/g/n/ac) (EM-I22J) 2.4G+5G, WIFI 802.11(a/b/g/n/ac) (EM-Q225M)
	Bluetooth	BT 5.0 (EM-I22J), BT 4.2 (EM-Q22M), BT 5.1(EM-Q225M), 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/NTT/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-Q22M WCDMA B1/B5/B8, GMS B3/B5/B8, TDD-LTE B38/B40/B41 FDD-LTE B1/B3/B5/B7/B8/B20 EM-Q225M 5G WCDMA B1/B5/B8 4G TDD-LTE B34/B38/B39/B40/B41, FDD-LTE: B1/B3/B5/B8 5G NR N1/B28/B41/B78/B79
	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 Support ISO/IEC 14443A/B/15693/18092/mifare (EM-I22J) Built-in, 13.56MHz, Card reading distance: 4cm
	1D	Optional, Optical resolution: 5mil/scan speed: 50 times/s
	2D	Optional, Optical resolution: 5mil/scan speed: 50 times/s

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



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 11/10 32GB/16GB RAM 256GB SSD
Model	Performance Parameter
EM-X14A	Intel i5-1235U/i7-1255U Windows 11/10 16GB/32GB RAM 256GB removable

Specification		
Basic Parameter	Dimension	363.2x287x4x42.1mm
	Weight	2950g
	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
Battery	I/O	TF x 1,SIM card x 1 ,Earphone jack x 1 USB3.2 x 1,USB3.0 x 1,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 portx 1 12PIN Pogo Pin (USB&Base Charger)x 1 Optional
	Power	DC input 100-240VAC0.5A50/60Hz,DC19V/3.78A 71.82W
	Capacity	4850mah/11.55V (56WH) +1300mah/11.1V (14.4WH)
	Type	Double Lithium-ion polymer battery
Communication	Endurance	8+1.5 hrs (EM-X14M7.5+1.5hrs (EM-X14A)
	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
Reliability	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
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% Non-Condensing
Data Acquisition	IP Grade	IP65
	NFC	Optional,13.56MHz, Card reading distance: 4cm
Data Acquisition	Fingerprint	Standard, SPI Fingerprint (Power-On Login)

Six views of product:



Accessory:



Rugged Notebook EM-X15M/X15A



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 11/10 32GB/16GB RAM 256GB SSD
Model	Performance Parameter
EM-X15A	Intel i5-1235U/i7-1255U Windows 11/10 16GB/32GB RAM 256GB removable

Specification		
Basic Parameter	Dimension	407x305.8x45.5mm
	Weight	3540g
	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 1,USB3.0 x 1,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
	Power	DC input100-240VAC0.5A50/60Hz,DC19V/3.78A 71.82W
	Capacity	4850mah/11.55V(56WH)+1300mah/11.1V(14.4WH)
	Type	Double Lithium-ion polymer battery
Communication	Endurance	8+1.5 hrs(EM-X15M), 7.5+1.5 hrs (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
Reliability	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
	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% Non-Condensing
Data Acquisition	IP Grade	IP65
	NFC	Optional 13.56MHz, Card reading distance: 4cm
	Fingerprint	Standard, SPI Fingerprint (Power-On Login)
Data Acquisition	Keyboard	Standard, US Layout Keyboard with Backlight

Six views of product:



Accessory:



Vehicle PC V80J/V80T



Product Features:

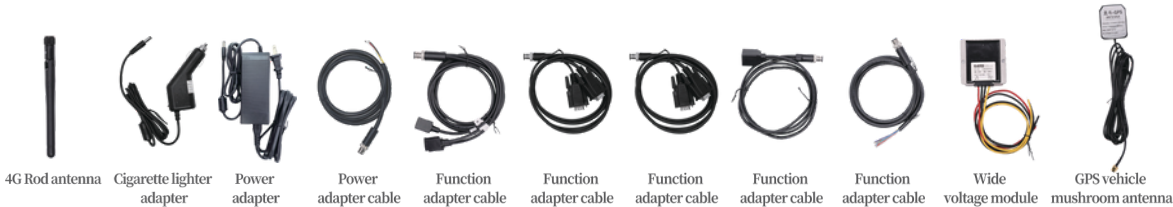
- Rich interface
- Optional NFC
- IP65 Grade
- Corning gorilla glass

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

Specification		
Basic Parameter	Dimension	219.2 x 156.4 x 23.0 mm
	Weight	620 g
	Device Color	black
	LCD	8" IPS 16:10, 800*1280, 1000nits
	Touch Panel	5 point capacitive, G+G
Battery	I/O	Nano-SIM card x 1 (V80J Optional), MICRO-SIM card x 1 (V80T Optional), USB 3.0 Type-A x 1 (V80J), USB 2.0 Type-A x 1 (V80T), RS232 + RS232/RS485 (Optional), Ethernet interface (1000M) (V80J Optional) Ethernet interface (100M) (V80T Optional) USB 2.0 *2 + CAN/CVBS *1 (V80J Optional) USB 2.0 *1+USB 2.0/CAN*1+USB 2.0/CVBS*1 (V80T Optional) DC input (Input: 11~24V) (EM-V80J), DC input (Input: 12V) (V80T)
	Capacity	3.7V/1000mAh
	Type	Optional small battery
Communication	Endurance	0.5hrs, Switch on and off
	GNSS	GPS+Glonass, Optional Beidou (V80J), GPS+Glonass+Beidou (V80T)
	WIFI	Dual frequency 5.0G+5.8G, WIFI 802.11(a/b/g/n/ac), Support AP seamless roaming (V80T)
Reliability	Bluetooth	BT5.0, Transmission distance: 10m
	4G (Optional)	LTE FDD: B1/B3/B5/B7/B8/B20, LTE-TDD B40 WCDMA: B1/B5/B8, GSM: 900/1800 (V80J), GSM: B2+B3+B5+B8, WCDMA: B1+B2+B5+B8, TD-S: B34+B39 TDD: B38+B39+B40+B41N, FDD: B1+B2+B3+B4+B5+B7+B8+B17+B20+B28a+B28b (V80T)
	Operate Temperature	-20 °C ~ 60 °C
Data Acquisition	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% Non-Condensing
	IP Grade	IP65
Data Acquisition	NFC	Optional, 13.56MHz Card reading distance: 4cm

Accessory:



Vehicle PC V10J/V10T



Product Features:

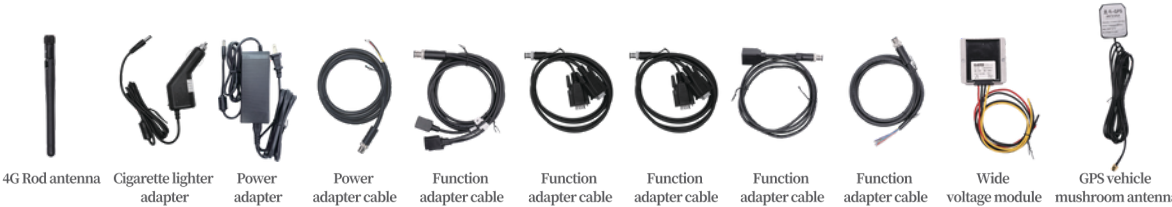
- Intel Celeron N5100
- ARM OCTA Core
- Windows 11, Android 12 GMS
- Fanless with low consumption
- IP65 of front panel
- DC11~24V

Processor Solution:

Model	Performance Parameter
V10J	Intel Celeron N5100 CPU Windows 10 /Ubuntu22.04.4/Ubuntu22.04.6 8GB RAM 128GB ROM
Model	Performance Parameter
V10T	ARM OCTA Core CPU Android 12 GMS 4GB RAM 64GB UFS ROM

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	5-point tempered glass capacitive screen G+G, hardness 7H
Battery	I/O	Nano-SIM card x 1 (V10J Optional), MICRO-SIM card x 1 (V10T Optional), USB 3.0 Type-A x 1 (V80J), USB 2.0 Type-A x 1 (V10T), RS232 + RS232/RS485 (Optional), Ethernet interface (1000M) (V10J Optional) Ethernet interface (100M) (V10T Optional) USB 2.0x2+USB 2.0(Default) /CANx1 DC input (Input: 11~24V) (EM-V10J), DC input (Input: 12V) (V10T)
	Capacity	3.7V/1000mAh
	Type	Optional small battery
Communication	Endurance	0.5hrs, Switch on and off
	GNSS	GPS+Glonass, Optional Beidou (V10J), GPS+Glonass+Beidou (V10T)
	WIFI	Dual frequency 5.0G+5.8G, WIFI 802.11(a/b/g/n/ac), Support AP seamless roaming (V10T)
Reliability	Bluetooth	BT5.0 (V10J), BT5.2 (V10T), Transmission distance: 10m
	4G (Optional)	LTE FDD: B1/B3/B5/B7/B8/B20, LTE-TDD B40 WCDMA: B1/B5/B8, GSM: 900/1800 (V80J), GSM: B2+B3+B5+B8, WCDMA: B1+B2+B5+B8, TD-S: B34+B39 TDD: B38+B39+B40+B41N, FDD: B1+B2+B3+B4+B5+B7+B8+B17+B20+B28a+B28b (V80T)
	Operate Temperature	-20 °C ~ 60 °C
Data Acquisition	Store Temperature	-30 °C ~ 70 °C
	Humidity	95% Non-Condensing
	IP Grade	IP65
Data Acquisition	NFC	Optional, 13.56MHz Card reading distance: 4cm

Accessory:



Vehicle PC V12R



Specification		
Basic Parameter	Dimension	282 x 181 x 31mm
	Weight	1150g
	Device Color	black
	LCD	10" HD, 800*1280/1024*600, 700/750nits
	Touch Panel	5-point tempered glass capacitive screen G+G
Communication	I/O	Standard: MICRO-SIM x 1, MICRO-SDx 1, USB 2.0*1AHD*4 Optional: TNC*2/SMA*2, 26PIN Deutsch interface
	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
	CAN	Supports up to 4 CAN Channels, with 250K/500K CAN Compatibility, and Common Agricultural and Construction Vehicle Protocols such as J1939.
	Data Radio (Optional)	Frequency Range: 410-470MHz
	RTK High-Precision Positioning (Optional)	Dual Antenna Localization Dual Antenna Mode supports BDS B1I/B2I/B3I, GPS L1/L2/L5, SBAS, GLONASS G1/G2, Galileo E1/E5a/E5b, QZSS L1/L2/L5
Reliability	AHD Multi-channel camera (Optional)	Supports up to 8 channels of AHD camera
	Operate Temperature	-20 °C ~ 60 °C
	Store Temperature	-30 °C ~ 85 °C
	Humidity	95% Non-Condensing
	IP Grade	IP65
	Electrostatic Discharge	±6kV Contact Discharge, ±10kV Air Discharge

- Product Features:**
- RK3568 Processor
 - Android 12/Linux dual systems
 - Optional large storage capacity
 - IP67 level + Wide temperature and voltage operation
 - Rich interfaces, diverse accessories

Processor Solution:

Model	Performance Parameter
V12R	ARM OCTA Core CPU Android 12 GMS 4GB RAM 64GB

Accessory:



26-PIN Deutsch Interface Functional Bus ACC Power Cable DC Conversion Cable Power Adapter Bracket GPS or BD Vehicle Mushroom Antenna 4G External Suction Cup Antenna Data Radio External Suction Cup Antenna RTK Mushroom Antenna

Industrial Panel PC P10A/P15A/P17A/P18A/P21A



- 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

Specification		
System Parameter	CPU	i5-1235U/i7-1255U
	ROM	8GB
	Storage	128GB/256GB/512GB
	WIFI	WIFI 802.11(a/b/g/n/ac/ax) 2.4G+5G , Support WIFI6
	Bluetooth	BT5.1
	4G (Optional)	LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8
	I/O	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
Display	Operating system	Windows 11
	Display Size	10.1" TFT-LCD 10:16 (P10A) 15.6" TFT-LCD 16:9 (P15A) 21.5" TFT-LCD 16:9 (P21A)
	Resolution	P10A: 800x1280 P15A/P18A/P21A: 1920x1080 P17A: 1280x1024
	Brightness	P10A:700nits,P15A:220nits, P17A:500nits,P18A/P21A: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	P10A:10.1" TFT-LCD 10:16 P15A:15.6" TFT-LCD 16:9 P17A:17" TFT-LCD 16:9 P18A:18.5" TFT-LCD 4:3 P21A:21.5" TFT-LCD 16:9
	Device Color	black
	Weight	1.2 kg (P10A),2.4 kg (P15A),4.18 kg (P17A), 3.22 kg (P18A),5.05kg (P21A)
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
P10A/P15A/P21A	CPU	i5-1235U/i7-1255U
	Memory	8GBRAM 128GB/256GB/512GB
	OS support	Windows 11
Model	Parameter	Configuration
P17A/P18A	CPU	i5-1235U/i7-1255U
	Memory	8GB RAM 128GB
	OS support	Windows 11



Product Features:

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

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	8/4GB 128/64/256GB
	OS support	Windows 11/10

Specification		
System Parameter	CPU	Intel®Celeron N5100 CPU, up to 2.80GHz
	ROM	4GB/8GB
	Storage	128GB/256GB/512GB
	WIFI	2.4G+5G Dual frequency WIFI 802.11(a/b/g/n/ac)
	Bluetooth	BT5.0
	4G (Optional)	M.2, LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8
	I/O	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 16:9 P18J:18.5" TFT-LCD 4:3 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
	IP Code	IP65 of front panel
Reliability	Operate Temperature	-20°C to 60°C
	Store Temperature	-30°C to 70°C
	Humidity	95% Non-Condensing



Product Features:

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

Processor Solution:

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

Specification		
System Parameter	CPU	RK3568 Quad-core Processor
	ROM	4GB on board
	Storage	64
	WIFI	802.11a/b/g/n/ac
	Bluetooth	BT5.0
	2G/3G/4G(Optional)	M.2 LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8
	I/O	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 2, 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 16:9, P18R:18.5" TFT-LCD 4:3 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



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

Processor Solution:

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



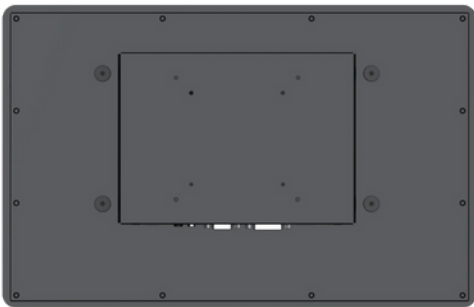
- Product Features:
- Aluminum Alloy Body with Matrix Fin Top Cover
 - 8GB RAM + 128GB SSD
 - PCIe 3.0 M.2 Design for Easy Expansion
 - Intel Wi-Fi 6 Wireless Network Card
 - Comprehensive Expansion Ports

Processor Solution:

Model	Parameter	Configuration
B10A	CPU	i5-1235U/i7-1255U
	Memory	8GB RAM 128GB/256GB/512GB
	OS support	Windows 11
Model	Parameter	Configuration
B10J	CPU	Intel N5100
	Memory	8GB RAM 128GB
	OS support	Windows 11
Model	Parameter	Configuration
B10R	CPU	RK3568 Octa-Core
	Memory	4GB RAM 64GB
	OS support	Android 12

Specification		
Basic parameter	Dimension	264x135.2x37.2 mm
	Weight	1.0kg
	Color	Black
	I/O	USB3.0x4 (B10A), USB3.0x2/USB2.0x2 (B10J) USB3.0x1 + USB3.0x1 OTG + USB2.0x2 (B10R) RJ45x2 (B10A/B10J) , RJ45x1 (B10R) DC 19Vx1, Earphone jackx1, DB9x2 HDMIx1, M2x1
Communication	Power	AC100V to 240V, 50Hz/60Hz, Output DC 19V/3.42A (B10A) AC100V to 240V, 50Hz/60Hz, Output DC 12V/4A(B10J/B10R)
	WIFI	B10A: WIFI 802.11(a/b/g/n/ac/ax) 2.4G+5G, supports WIFI6 B10J: WIFI 802.11(ac) Frequency 2.4G+5G B10R: 802.11a/b/g/n/ac
	Bluetooth	BT5.1 (B10A) ,BT5.0 (B10J/B10R)
	4G(Optional)	LTE FDD: B1/B3/B7/B8/B20/B28A WCDMA: B1/B8 GSM: B3/B8 (B10A)
Reliability	Operate Temperature	-20°C to 60°C
	Store Temperature	-30°C to 70°C
	Humidity	95% Non-Condensing

Panel Touch Display PT21



- Product Features:
- Large HD Industrial Display
 - 10-Point Capacitive Touchscreen
 - Narrow Bezel Design with Over 88% Screen-to-Body Ratio
 - Built-In Versatile Input Interfaces
 - IP65 Flat Front Panel and Fin-Style Back Cover

Specification		
Basic parameter	Dimension	PT21: 537.02 x 324.02 x 48 mm
	Weight	4.48kg
	Color	Black
	LCD	PT21: 21.5" LCD, 16:9, 1920*1080, 250nits
	Touch Panel	10-point capacitive panel, Optional non-touch screen available
	I/O	DC 12V x 1, HDMI x 1, VGA x 1, DVI x 1 3.5mm Standard AUDIO port x 1, 3.5mm Standard Earphone Jack x 1 USB TYPE B\ TP Port
Power	DC	AC100V to 240V, 50Hz/60Hz, Output DC 12V/4A
Reliability	Operate Temperature	-20°C to 60°C
	Store Temperature	-30°C to 70°C
	Humidity	95% Non-Condensing
	IP Grade	IP65 Front Panel

Processor Solution:

Model	Parameter	Configuration
PT21	CPU	Realtek RTD2513A

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.

Communication base station management



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



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

Fleet management



8-inch rugged tablet with external Camera can collect video image information in real time, realizing real-time video monitoring and recording of vehicles and personnel.

Warehouse



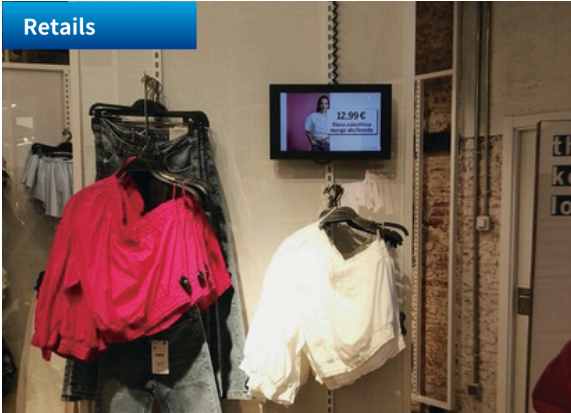
The 6-inch rugged handheld has 1D/2D scanning, NFC and communication functions. It is used in logistics to record the information and contact the person of the receiving and sending pieces.

Smart medical



The 8-inch rugged tablet has a large battery, long standby time and a multi-touch screen for inspection, report writing and data logging.

Retails



Customized 8-inch, 10-inch, and 15-inch rugged tablets can better provide corporate and product promotions.

Air Conditioning and Ventilation Equipment Management



Embed the 10.1-inch rugged tablet into the equipment or cabinet to automate the production process and scheduling management.

Transportation management



The 12-inch rugged tablet uses its 4G, GPS, WiFi and other functions to realize timely data collection and transmission and accurate route tracking.

บริษัท วิโมซ่า จำกัด



THANK
YOU!