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Why Winmate

- Depth of experience 30+ years
- Unmatched breadth of products and services
- More investments in R&D
- Market leader in multiple categories
- Extensive partner ecosystem
- Multiple innovation and workplace awards

Extensive Reach

Scalable to meet any enterprise demands



\$200M (USD)





15+

Across 45 countries



400+

US and INTL patents issued and pending



1,500+

Employees Worldwide



5,000+

Channel Partners In over 100 countries



50+

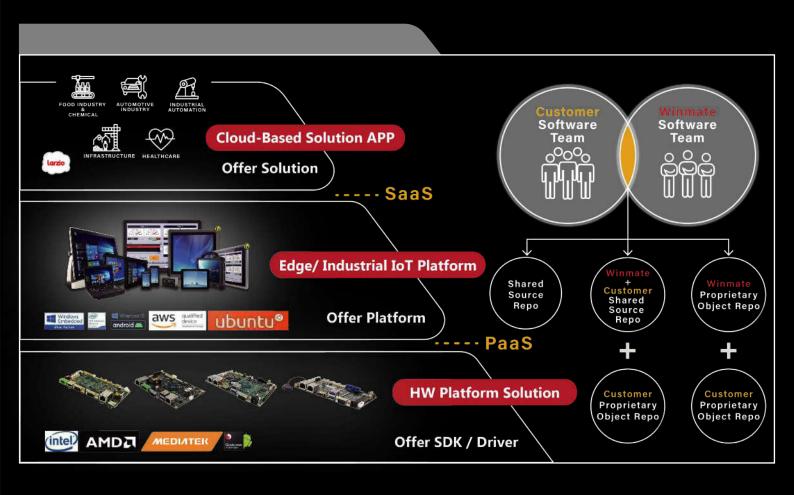
Distribution Channels ODM, OEM, Direct, SI



Co-creating for SaaS Business



Ensure you get the most out of AI, RFID and Winmate SW solutions





Workflow and Design Consulting

Uncover critical business requirements



Solution Jumpstart

Design a tangible proof-of-concept that visualizes what is possible



Solution Validation

Assure that your existing systems are compatible with Winmate solutions



Program Management

Speed up execution with administration, coordination, and customized project management



Software Integration

Ensure the software powering your winmate solutions works seamlessly with your back-end IT systems



Learning as a Service

Speed up user adoption with the training and support you need to get the most from your solution

Featured for Your In-Vehicle Mount Computer

VMC & VMT Product guide







AMR Lift Truck Automate materials movement with safe and reliable task automation

Background



Recent advancements in sensing, mapping, and navigation tech have enabled Automated Guided Vehicles (AGVs) and Autonomous Mobile Robots (AMRs) to supplant traditional forklifts in warehousing and intralogistics. AGVs ensure safety by operating in segregated zones, while AMR lift trucks use autonomous tech, including camera, LiDAR, and machine learning data, for agile navigation. Key AMR components include an HMI controller, computing unit, battery, motors, sensors, and cameras. AMR lift trucks shine with their dynamic path flexibility, offering cost-efficient and deployable solutions.



Core

7 to 12 inches Android / Windows vehicle-mounted computers





Main Challenges

AMR controllers are built to withstand harsh indoor-to-outdoor material flow environments, ensuring stable performance even in high heat conditions. These controllers undergo rigorous testing to ensure their resilience in humid, dusty, and vibration-prone settings, minimizing device downtime. Additionally, AMRs require versatile computing devices with multiple I/O interfaces and wireless connectivity to seamlessly connect with cameras, sensors, and warehouse management systems for efficient data and location sharing.



Why Winmate

Winmate Vehicle-Mounted Computers seamlessly fit most warehouse and heavy-duty vehicles. It features a set of programmable keys and a glove-friendly touchscreen to simplify the most complex operations. Each product has been tested based on the MIL-STD 810G/H against vibration, drop, and impact. Also, IP65 protection, optional waterproof connectors, temperature sensor, defroster, and optical bonding protect the computer against dust, water intake, and humidity.





L L156AD ries Rugged Laptop





Logistics Improve the efficiency of road cargo

Background

It's this growing complexity in transportation management that's driving more logistics operations to explore their mobile options. Whether they want to monitor their assets and human resources, more efficiently route and schedule their trucks, or enhance the service levels provided by their customer-facing employees, shippers are turning to mobile tools to help achieve these and other goals.



Core





Main Challenges

the power supply for these systems, primarily drawn from the vehicle itself, poses another challenge. The ability to harness and regulate this power source efficiently, ensuring it meets the specific requirements of the onboard equipment, is paramount. This entails not only maintaining a consistent supply but also safeguarding against potential voltage fluctuations or power surges that could disrupt system functionality. Lastly, the need to maintain a reliable wireless signal in remote or challenging locations is a vital consideration. Whether for data transmission, communication, or remote monitoring, maintaining connectivity is essential for real-time decision-making and data exchange. This challenge entails the deployment of robust antenna systems, signal boosters, and communication protocols that can withstand interference and environmental factors.



Why Winmate

Winmate's rugged computing solutions are designed to withstand high levels of vibration, ensuring the reliability and longevity of your equipment, even in the most demanding conditions. This durability is crucial for cargo trucks that may encounter rough roads and constant movement during long hours of operation. Uninterrupted 4G/LTE Connectivity: Winmate's VMCs provide seamless 4G/LTE connectivity without interruptions. This connectivity is essential for real-time data transfer, communication, and tracking, allowing you to monitor and manage your cargo trucks efficiently, regardless of their location.













Overview

In today's fast-paced world, industries rely heavily on technology to optimize their operations and increase productivity. Among the many innovations in the market, Winmate Vehicle Mounted Computers have proven to be a game-changer for businesses in various sectors. These rugged and reliable devices are specifically designed to withstand challenging environments and offer a wide range of benefits, making them an ideal solution for logistics, transportation, and industrial applications.

Rugged Design for Unmatched Durability

Winmate's Vehicle Mounted Computers are built with ruggedness in mind. They are constructed to endure extreme temperatures, vibrations, and dust commonly encountered in demanding environments. This robust design ensures that the devices continue to perform optimally, even in the harshest conditions, making them ideal for field applications, warehouse management, and logistics operations.

Seamless Integration and Customization

Winmate understands that each industry has unique requirements. Therefore, their Vehicle Mounted Computers are designed to offer seamless integration with existing systems and applications. This adaptability allows businesses to streamline processes, reduce implementation time, and ensure compatibility with their specific workflows.

Moreover, Winmate offers customization options, enabling companies to tailor the devices to suit their exact needs. From display sizes and processing power to peripheral connectivity, businesses can choose from a range of configurations to achieve the perfect fit for their operations.

High-Performance Computing on the Move

Equipped with powerful processors and ample memory, Winmate Vehicle Mounted Computers provide high-performance computing on the go. With the ability to run resource-intensive applications smoothly, these devices empower workers to access real-time information, make quick decisions, and carry out tasks efficiently.

Features:

Platform: Windows-based and Android-based

Touch: Resistive / P-CAP Touch

■ Power: 10~60V Wide power input with ignition control

Support RAM / VESA mount

Application: Urban Waste Collection, Warehouse and Logistics



Application

Winmate offers a range of Vehicle Mounted Computer (VMC) solutions for various industries, including logistics, transportation, and manufacturing. These VMCs are designed to provide real-time data collection, monitoring, and control capabilities for vehicles.

Fleet Management Software:

Fleet management software is essential for tracking and managing a fleet of vehicles. It can help monitor vehicle locations, routes, fuel consumption, and maintenance schedules. Winmate may offer or recommend third-party fleet management software solutions that are compatible with their VMCs.

Navigation and GPS Software:

For transportation and logistics companies, navigation and GPS software can be crucial. These applications help drivers navigate efficiently, plan routes, avoid traffic, and optimize delivery schedules. Winmate VMCs often come with GPS capabilities and support for navigation software.

Warehouse Management Software:

In warehouse and distribution environments, Winmate VMCs can be integrated with warehouse management software (WMS) to track inventory, manage orders, and streamline operations. The VMCs serve as a data collection and input tool for warehouse staff.

Telematics and Vehicle Diagnostics:

Telematics software provides real-time data on vehicle performance, health, and driver behavior. Winmate VMCs can be used to collect and transmit this data for analysis, helping fleet managers make informed decisions and maintain their vehicles.

Barcode Scanning and RFID Applications:

Winmate VMCs are often equipped with barcode scanners or RFID readers for data collection. You may need software applications to process and manage barcode or RFID data for inventory tracking, asset management, or quality control.

Customized Industry-Specific Applications:

Depending on your industry, Winmate or third-party developers may offer specialized software applications tailored to your unique needs. These could include applications for agriculture, construction, mining, or other specialized fields.



FM Series With Vehicle Docking



Snapdragon™ 660

Qualcomm

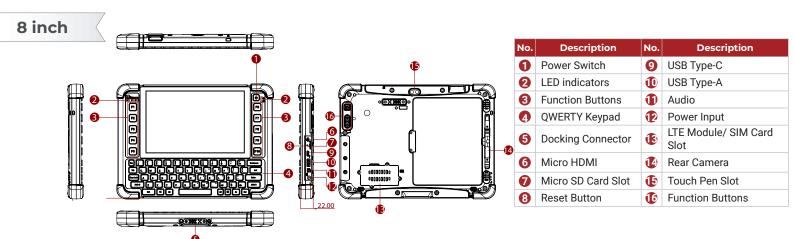


Intel® Atom® x6413E

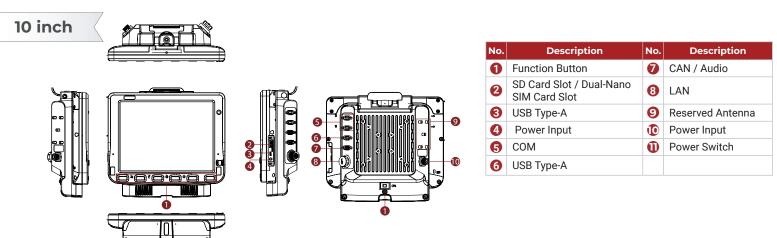
Elkhart lake

Form Factor

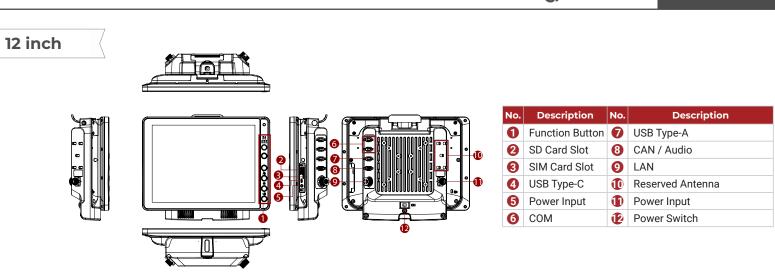
M101EKB



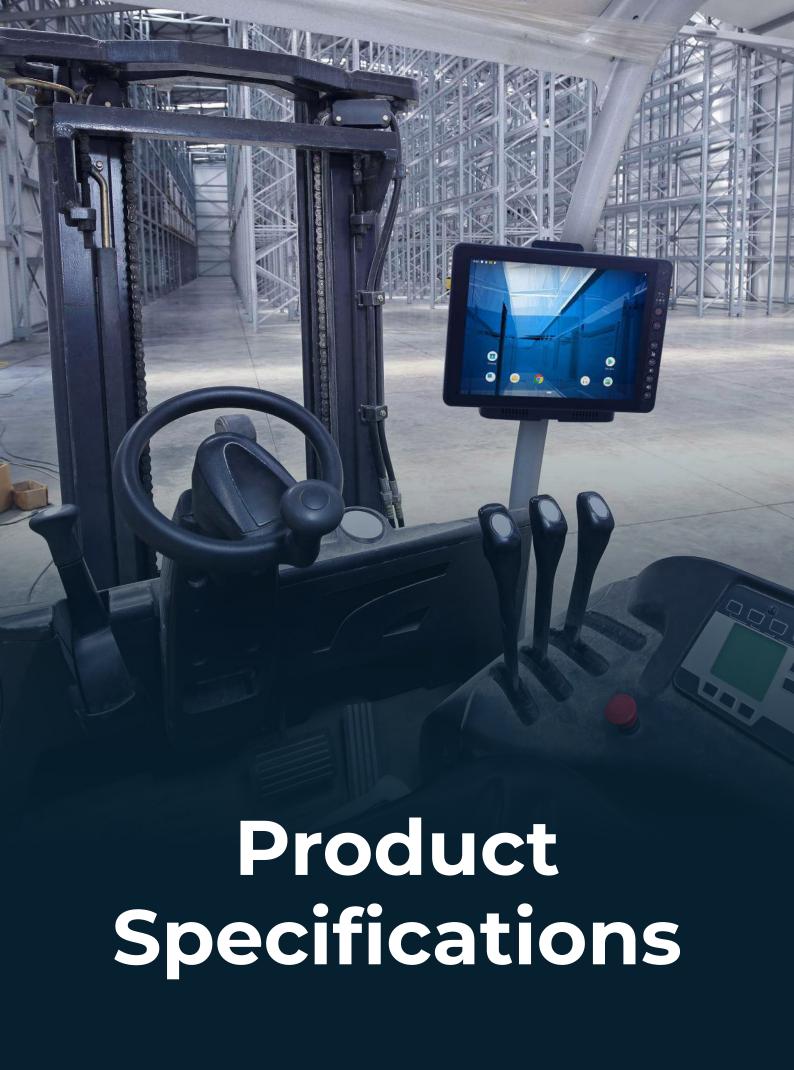
FM10Q/FM10E



FM12Q/ FM12E







Specifications: M101EKB/ FM10E





Model	Name	M101EKB	FM10E
	Resolution	1280x800	1024x768
	Contrast Ratio	1500:1	1200:1
	View Angles	80,80,80,80	88,88,88,88
Display	Size	8.0 inches	10.4 inches
	Panel Brightness	800.0 nits	400 nits 800 nits(Optional)
	Touch Mode	Support Hand / Gloves and Rain Mode	Support Hand, Stylus, Glove Mode
	Processor	Intel Celeron N6211 @1.20 GHz (up to 3.00 GHz) Intel Pentium N6415 @1.20 GHz (up to 3.00 GHz) (Optional)	Intel Atom X6413E 1.5 GHz
	Storage	128GB SSD Additional storage available with micro SDXC card slot 256GB SSD (Optional) 512GB SSD (Optional)	1 x M.2 2242 SSD 128GB 256GB (Optional)
	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock	Trusted Platform Module (TPM) 2.0
Cuatam	ВТ	Support	Support
System Specification	WLAN	Support	Support
Specification	Memory	4GB LPDDR4 8GB LPDDR4 (Optional)	1 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional)
	Operating System	Windows 10 IoT Enterprise LTSC (64 bit)	Windows 10 IoT Enterprise (64 bit)
		Windows 11 IoT Enterprise SAC (64-bit) (Optional)	'
	WLAN	Support 4G (Optional)	Support
	WWAN	5G (Optional	4G/LTE (Optional)
	BT	Support	Support
	GNSS	GPS, GLONASS, Galileo, BeiDou	GPS/AGPS (12 / 12 / 12 / 12 / 12 / 12 / 12 / 12
Mechanical	Dimension	271.8 x 198.2 x 22 mm	Tablet: 268 x 214 x 35 mm (10.6 x 8.42 x 1.37 inches) Docking: 202 x 245 x 52 mm (7.9 x 9.6 x 2.04 inches)
1-1001101111001	Mounting	VESA Mount	VESA Mount
	Cooling System	Fanless design	Fanless design
	Operating Humidity	10% to 90% RH, non-condensing	5% to 90% RH, Non-Condensing
	Storage Temperature	20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-30°C to 60°C
Environment	Operating Temperature	0°C to 50°C	-30°C to 50°C
Liivii Oliillelit	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810G Method 514.6 Procedure I
	Shock	MIL-STD-810H Method 516.8 Procedure I	MIL-STD-810G Method 516.6 Procedure I
	IP rating	IP65	IP65
	Certification	CE, FCC	CE, FCC FCC (Electromagnetic Emissions), IC (ICES-003) UL60950-1, EN60950-1, PTCRB
	USB Port	1 x USB 3.0 (Type A), 1 x USB 3.0 (Type-C support Power Delivery 20V In)	1 x USB Type-C(Tablet) 1 x DB9 Connector for 2 x USB 2.0 Port(Docking)
	Video	1 x Micro HDMI Output (Optional)	-
	LAN	-	1 x Gigabit LAN port(Docking)
Certification	Audio	1 x Audio combo 3.5mm audio combo jack (Mic in or Line Out) Dual Digital Mic With Noise Cancellation Dual Speaker	2 x Speaker(Docking) 1 x CANBus or 1 x Audio(Docking)
	Expansion Port	1 x Expansion connector (Optional)	-
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status	6 x LED Indicator (WLAN, BT, UPS battery, HDD, Screen Blanking, Heater)
	SD Card Slot	1 x Micro SD Card slot (Support SDXC)	1 x Micro SD Card Slot(Tablet)
	SIM Card Slot	1 x SIM Card Slot	1 x Dual-Nano SIM Card Slot(Tablet)
Control	Button	Physical Buttons: ISO/IEC 9995-3 QWERTY Keypad , IP65 water and dust proof, with LED backlight (keypad dimensions: min. 10x10mm) 1 x Power, 10 x Function Keys (programmable by Hottab)	1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset)
Accessory	Accessory	Adapter and Power Cord Capacitive Stylus Standard Battery	5M Power Cable with Fuse Kit 0.3M USB Cable 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Cable Clamp Kit Wi-Fi Antenna x 2 Quick Start Guide External Antenna Fixing Bracket Dock + Latch Locking Key Stylus Kit + Screw
Power	Power Rating	19V DC	Docking: 10V-60V with ignition control Tablet: 12V DC In
	Adapter	100-240V, 50-60Hz / 19V DC	Docking: 10V-60V with ignition control Tablet: 12V DC In
			TADIEL. IZV DC III

Specifications: FM10Q/ FM12Q





Mode	l Name	FM10Q	FM12Q
	Resolution	1024x768	1024x768
	Size	10.4 inches	12.1 inches
	Contrast Ratio	1200:1	1000:1
Display	Panel Brightness	400 nits	400 nits
	View Angles	800 nits(Optional) 88,88,88,88	800 nits(Optional) 89,89,89,89
	Touch Mode	Support Hand, Stylus, Glove Mode	Support Hand, Stylus, Glove Mode
		Qualcomm® Snapdragon™ 660 (Octa-Core	Qualcomm® Snapdragon™ 660 (Octa-Core
	Processor	2.2 GHz)	2.2 GHz)
	Memory	3GB	3GB
	Storage	32GB	32GB
System	Security	TPM 2.0	TPM 2.0
Specification	Operating System	Android 9.0	Android 9.0
•	WLAN	Support	Support
	WWAN	4G/LTE (Optional)	4G/LTE (Optional)
	BT	Support	Support
	GNSS	GPS/GLONASS	GPS/GLONASS
Mechanical	Dimension	Tablet: 268 x 214 x 35 mm (10.6 x 8.42 x 1.37 inches) Docking: 202 x 245 x 52 mm (7.9 x 9.6 x 2.04 inches)	Tablet: 307 x 225 x 41 mm Docking: 202 x 245 x 52 mm
1-1-0-1-drill-out	Mounting	VESA Mount	VESA Mount
	Cooling System	Fanless Design	Fanless Design
	Operating Humidity	5% to 95% RH, Non-Condensing	5% to 95% RH, Non-Condensing
	Operating Temperature	-30°C to 50°C	-30°C to 50°C
	Storage Temperature	-30°C to 60°C	-30°C to 60°C
Environment	Shock	MIL-STD-810G Method 516.6 Procedure I	MIL-STD-810H Method 516.8 Procedure I
	Vibration	MIL-STD-810G Method 514.6 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	IP rating	IP65	IP65
Certification	Certification	CE, FCC	CE, FCC
	USB Port	1 x USB 3.0 Type C (OTG)(Tablet) 1 x DB9 Connector for 2 x USB 2.0 Port(Docking)	1 x USB Type-C(Tablet) 1 x DB9 Connector for 2 x USB 2.0 Port(Docking)
	Serial Port	2 x COM Port(Docking)	2 x COM Port(Docking)
IO Ports	Audio	2 x Speaker(Docking) 1 x CANBus or 1 x Audio(Docking)	2 x Speaker(Docking) 1 x CANBus or 1 x Audio(Docking)
	LAN	1 x Gigabit LAN port(Docking)	1 x Gigabit LAN port(Docking)
	SD Card Slot	1 x Micro SD Card Slot(Tablet)	1 x Micro SD Card Slot(Tablet)
	SIM Card Slot	1 x Dual-Nano SIM Card Slot(Tablet)	1 x Dual-Nano SIM Card Slot(Tablet)
Control	Button	1 x Power Button, 6 x Function Button (Programmable Function Key Configured by	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by
Accessory	Accessory	Winset) 5M Power Cable with Fuse Kit 0.3M USB Cable 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Cable Clamp Kit Wi-Fi Antenna x 2 Quick Start Guide External Antenna Fixing Bracket Dock + Latch Locking Key Stylus Kit + Screw 1.8M RS232 Cable 0.3M Audio Cable 1.8M CAN BUS Cable 1.8M CAN BUS Cable	Winset) 5M Power Cable with Fuse Kit 0.3M USB Cable 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Cable Clamp Kit Wi-Fi Antenna x 2 Quick Start Guide External Antenna Fixing Bracket Dock + Latch Locking Key Stylus Kit + Screw 1.8M RS232 Cable 0.3M Audio Cable 1.8M CAN BUS Cable 1.8M CAN BUS Cable
	Optional Accessory	2M IP65 LAN Cable GPS & LTE 2M Combo Antenna(VM240) GPS & LTE 5M Combo Antenna (VM9C) Magnetic Combo Antenna (VM10S) WWN Antenna HDMI Adapter	2M IP65 LAN Cable GPS & LTE 2M Combo Antenna(VM240) GPS & LTE 5M Combo Antenna (VM9C) Magnetic Combo Antenna (VM10S) WWN Antenna HDMI Adapter
Power	Power Rating	Docking: 10V-60V with ignition control Tablet: 12V DC In	1Docking: 10V-60V with ignition control Tablet: 12V DC In
		1.00.001 12 7 0 0 111	145.66 127 50 111

Specifications: FM12E



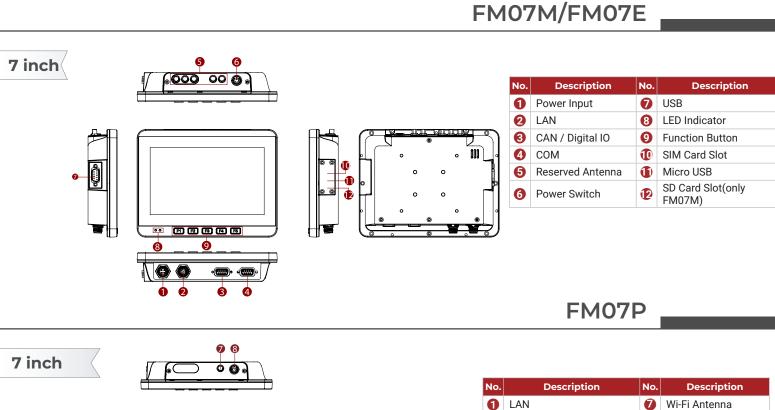
Model	Name	FM12E
	Resolution	1024x768
	Size	12.1 inches
	Contrast Ratio	1000:1
Display	Panel Brightness	400 nits 800 nits(Optional)
	View Angles	89,89,89,89
	Touch Mode	Support Hand, Stylus, Glove Mode
	Proce ssor	Intel Atom X6413E 1.5 GHz
	Memory	1 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional)
	Storage	1 x M.2 2242 SSD 128GB 256GB (Optional)
System Specification	Operating System	Windows 10 IoT Enterprise (64 bit)
	WLAN	Support
	BT	Support
	WWAN	Support
	GNSS	GPS/AGPS
	Dimension	Tablet: 307 x 225 x 41 mm Docking: 202 x 245 x 52 mm
Mechanical	Mounting	VESA Mount
	Cooling System	Fanless Design
	Operating Humidity	5% to 95% RH, Non-Condensing
	Operating Temperature	-30°C to 50°C
Environment	Storage Temperature	-30°C to 60°C
Liiviioiiiieiit	Shock	MIL-STD-810H Method 516.8 Procedure I
	Vibration	MIL-STD-810H Method 514.8 Procedure I
	IP rating	IP65
Certification	Certification	CE, FCC
	USB Port	1 x USB 3.0 Type C (Tablet) 1 x DB9 Connector for 2 x USB 2.0 Port(Docking)
	Serial Port	2 x COM Port(Docking)
IO Ports	SD Card Slot	1 x Micro SD Card Slot(Tablet)
	SIM Card Slot	1 x Dual-Nano SIM Card Slot(Tablet)
	LAN	1 x Gigabit LAN port(Docking)
Control	Button	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by Winset)
Accessory	Accessory	5M Power Cable with Fuse Kit 0.3M USB Cable 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Cable Clamp Kit Wi-Fi Antenna x 2 Quick Start Guide External Antenna Fixing Bracket Dock + Latch Locking Key Stylus Kit + Screw
·	Optional Accessory	1.8M RS232 Cable 0.3M Audio Cable 1.8M CAN BUS Cable 1.8M CAN BUS Open Wire Cable 2M IP65 LAN Cable GPS & LTE 2M Combo Antenna (VM240) GPS & LTE 5M Combo Antenna (VM9C) Magnetic Combo Antenna (VM10S) WWN Antenna HDMI Adapter
Power	Power Rating	Docking: 10V-60V with ignition control Tablet: 12V DC In

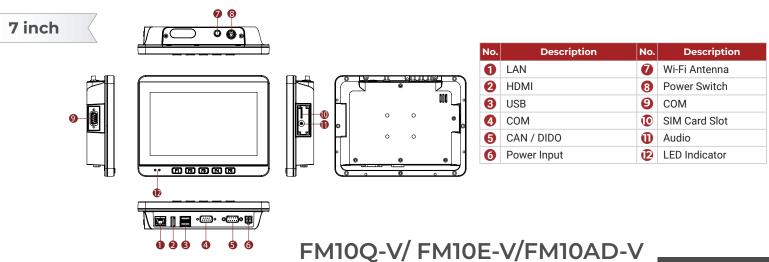
FM-V Series All-in-one Design

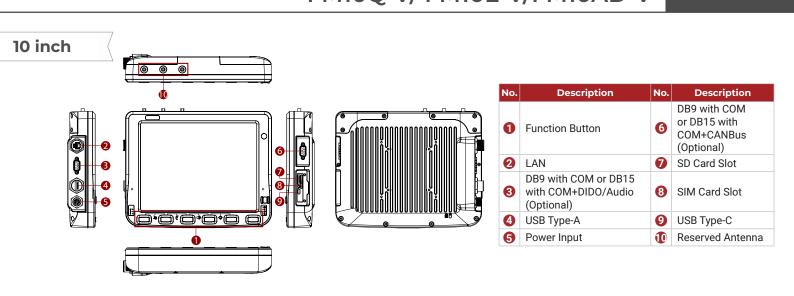
D.D.



Form Factor



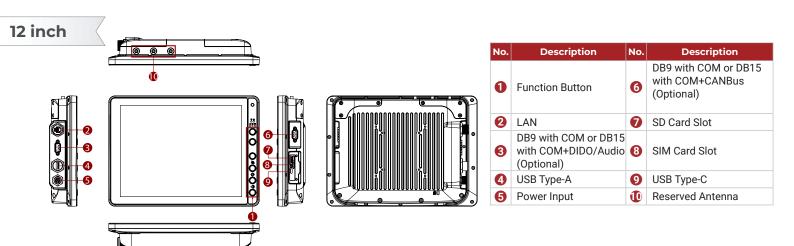




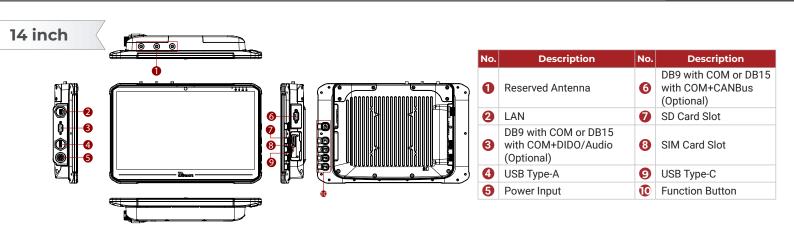


Form Factor

FM12Q-V/FM12E-V/FM12AD-V



FM14Q-V/FM14E-V/FM14AD-V





Specifications: FM07M/ FM07E





Model	l Name	FM07M	FM07E
	Resolution	1024x600	1024x600
Disales	Size	7 inches	7.0 inches
	Contrast Ratio	700:1	700:1
Display	Panel Brightness	1000.0 nits	1000.0 nits
	View Angles	75,75,75,70	75,75,75,70
	Touch / Glass	Projected Capacitive Multi Touch Screen	Projected Capacitive Multi Touch Screen
	Processor	ARM A53 Quad Core 2.0GHz	Intel Celeron N6211 1.2GHz (up to 2.6GHz)
	Memory	4GB LPDDR4	1 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional) 16GB (Optional)
	Storage	eMMC: Onboard 32 GB	1 x M.2 2242 SSD 128GB
System	Operating System	Android 11 (Upgradeable to Android 13) Linux Yocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu (in 2023) (Optional)	Windows 10 IoT Enterprise (64 bit) Linux Ubuntu 20.04 (Optional)
Specification	Ethernet controller	-	1 x Intel® Ethernet Controller
opecinication	Security	-	TPM 2.0
	BT	Support	Support
	WLAN	Support	Support
	WWAN	4G/LTE (Optional)	4G/LTE (Optional)
	GNSS	GPS/GLONASS	GPS, GLONASS
	RFID	NFC (Optional)	-
	Dimension	190 x 146 x 40 mm	190 x 146 x 40 mm
Mechanical	Mounting	RAM Mount/ VESA Mount	RAM Mount/ VESA Mount
Mechanical	Weight	1.25 kg	1.25 kg
	Cooling System	Fanless Design	Fanless Design
	Operating Humidity	10% to 95% RH	10% to 95% RH
	Operating Temperature	-20°C to 60°C	-20°C to 60°C
Environment	Storage Temperature	-20°C to 60°C	-20°C to 60°C
Environment	Shock	MIL-STD-810H Method 516.6 Procedure I	MIL-STD-810H Method 516.6 Procedure I
	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	IP rating	IP65, Dustproof and Waterproof	IP65, Dustproof and Waterproof
Certification	Certification	CE, FCC	CE, FCC
	USB Port	2 x USB for DB9 1 x Micro USB OTG	2 x USB for DB9 1 x Micro USB
	Serial Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
	LAN	1 x LAN 10/100/1000 Mbps (M12 type)	1 x Gigabit Ethernet LAN 10/100/100 Mbps (M12 type)
IO Ports	Audio	1x Speaker	1x Speaker
IO FOI LS	SD Card Slot	1 x Micro SD card slot (Max to 32GB)	-
	SIM Card Slot	1 x SIM Card Slot (Optional)	1 x SIM Card Slot
	Indicator	Power	Power, HD
	DIDO	DIDO (5XDI ; 3XDO)	DIDO (5XDI ; 3XDO)
	CANBUS	1 x CANBus	2x CANBus
Control	Button	1 x Power Button, 5x Function Button (Programmable Function Key Configured by Winset)	1 x Power Button, 5x Function Button (Programmable Function Key Configured by Winset)
Accessory	Accessory	User Guide M12 LAN Cable, 1.8m RS232 Cable, 1.8m M12 Power Cable, 1.8m USB Cable, 0.3m CANBus and DIDO Cable, 1.8m WLAN Antenna x1 BT Antenna x1 Power Converter Cable Power Adapter	User Guide M12 LAN Cable, 1.8m RS-232 Cable, 1.8m M12 Power Cable, 1.8m USB Cable, 0.3m CANBus and DIDO Cable, 1.8m WLAN Antenna Power Converter Cable Power Adapter
	Optional Accessory	WWAN Antenna x 2 (Optional) Audio Cable, 0.3m (Optional) GPS Antenna, 3m (Optional)	WWAN Antenna x 2 (Optional) Audio Cable, 0.3m (Optional) GPS Antenna, 3m (Optional)
Power	Power Rating	9V~24V, with ignition control	9V-36V, with ignition control

Specifications: FM07P



Model	Name	FM07P
	Resolution	1024x600
	Size	7.0 inches
D: 1	Contrast Ratio	700:1
Display	Panel Brightness	1000.0 nits
	View Angles	75,75,75,70
	Touch / Glass	Projected Capacitive Multi Touch Screen
	Processor	Intel Celeron N3350 1.1GHz (up to 2.4GHz) Intel Pentium N4200 1.1GHz (up to 2.5GHz) (Optional)
	Memory	1 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)
	Storage	1 x M.2 2242 SSD 128GB
	Ethernet controller	1 x Intel® Ethernet Controller
System	Security	TPM 2.0
Specification	Operating System	Windows 10 IoT Enterprise (64 bit) Linux Ubuntu 20.04 (Optional)
	WLAN	Support
	BT	Support
	WWAN	4G/LTE (Optional)
	GNSS	GPS, GLONASS
	Dimension	189.93 x 145.93 x 39.8 mm
Mechanical	Mounting	RAM Mount/ VESA Mount
I-reoriamout	Weight	1.2kg
	Cooling System	Fanless Design
	Operating Humidity	10% to 95% RH
	Operating Temperature	-20°C~60°C
Environment	Storage Temperature	-20°C~60°C
	Shock	MIL-STD-810G Method 516.6 Procedure I
	Vibration	MIL-STD-810G Method 514.6 Procedure I
	IP rating	IP65
Certification	Certification	CE, FCC
	USB Port	2 x USB
	Serial Port	2 x COM Port
	Audio	1x Speaker
IO Ports	LAN	1 x Gigabit Ethernet LAN 10/100/100 Mbps
	SIM Card Slot	1 x SIM Card Slot
	Indicator	Power, HD
	DIDO	1 x DIDO (3XDI ; 3XDO)
	CANBUS	2 x CANBUS
Control	Button	1 x Power Button, 5x Function Button (Programmable Function Key Configured by Winset)
Accessory	Accessory	User Guide CANBus and DIDO Cable, 1.8m WLAN Antenna Power Converter Cable Power Adapter
	Optional Accessory	WWAN Antenna x 2 (Optional) GPS Antenna (Optional)
Power	Power Rating	9V-36V, with ignition control

Specifications: FM10Q-V/FM10E-V





Display	Mode	l Name	FM10Q-V	FM10E-V		
Display Page Properties Add Prise Properties Add Prise Properties Add Prise Add Pris		Resolution	1024x768	1024x768		
Panel Brightness		Size	10.4 inches	10.4 inches		
#00 mstOptional \$00 mstOpt		Contrast Ratio	1200:1	1200:1		
View Angless	Display	Panel Brightness				
Touch Mode		View Angles		· · · · · · · · · · · · · · · · · · ·		
Processor						
Memory 3GB 8.00		Processor	Qualcomm® Snapdragon™ 660 (Octa-Core 2.2			
System						
System		метогу	308	8GB (Optional)		
Security Part Support Suppor		Storage	32GB			
Security	System	Operating System	Android 9.0	Windows 10 IoT Enterprise (64 bit)		
Support		Security	-	TPM 2.0		
WWAN	opecinication	ВТ	Support	Support		
GRSS		WLAN	Support	Support		
Sensors		WWAN	4G/LTE (Optional)	4G/LTE (Optional)		
Dimension		GNSS	GPS/GLONASS (Optional)	GPS/GLONASS (Optional)		
Mounting VESA Mount VESA Mount VESA Mount Weight 2.4 kg 2.4 k		Sensors	G-Sensor, Temp. Sensor	G-Sensor, Light Sensor ,Temp Sensor		
Weight		Dimension	268.1 x 214 x 51 mm	268.1 x 214 x 51 mm		
Cooling System	Mechanical	Mounting	VESA Mount	VESA Mount		
Operating Humidity	Mechanicat	Weight	2.4 kg	2.4 kg		
Departing Temperature		Cooling System	Fanless Design	Fanless Design		
Storage Temperature		Operating Humidity	5% to 95% RH, Non-Condensing	5% to 90% RH, Non-Condensing		
Shock		Operating Temperature	-30°C to 50°C	-30°C to 50°C		
Vibration		Storage Temperature	-30°C to 60°C	-30°C to 60°C		
Prating	Environment	Shock	MIL-STD-810H Method 516.8 Procedure I	MIL-STD-810H Method 516.6 Procedure I		
Impact	Limitolillell					
ESD						
Certification		Impact	9			
USB Port		ESD				
Serial Port	Certification	Certification	CE, FCC	CE, FCC		
Serial Port		USB Port	1 x USB 3.0 Type C (OTG)			
LAN		Serial Port				
Audio			1 x Gigabit LAN port	1 x Gigabit LAN port		
Accessory Optional Accesso						
SIM Card Slot		Audio				
Indicator S x LED Indicator (WLAN, BT, UPS battery, Screen Blanking, Heater)	IO Ports	SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot		
Indicator SX LED Indicator (WLAN, BT, UPS battery, Screen Blanking, Heater) (WLAN, BT, UPS battery, HDD, Screen Blanking, Heater)		SIM Card Slot	1 x Dual-Nano SIM Card Slot	1		
Control Canbus Canbus Canbus Canbus Control		Indicator		(WLAN, BT, UPS battery, HDD, Screen Blanking,		
CONTrol Button 1 x CANBUS (Optional) 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable DC Jack Power Cable B4W Adapter with power cable Quick Start Guide Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE 5M Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable		DIDO				
Control Button 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable DC Jack Power Cable B4W Adapter with power cable Quick Start Guide Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE 5M Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset) 1 x Power Button, 6 x Function Expressed by Winset) 1 x Power Button, 6 x Function Expressed by Winset) 1 x Power Button, 6 x Function Expressed by Winset) 1 x Power Button, 6 x Function Key Configured by Winset) 1 x Power Button, 6 x Function Key Configured by Winset) 1 x Power Button, 6 x Function Key Configured by Winset) 1 x Power Button, 6 x Function Key Configured by Winset) 1 x Power Button, 6 x Function Key Configured by Winset) 1 x Power Button, 6 x Function Key Configured by Winset) 1 x Power Button, 6 x Function Key Configured by Winset) 1 x Power Button, 6 x Function Key Cable With Fuse Kit 1 x Power Button, 6 x Function Key Cable 1 x Power Button, 6 x Function Key Cable 1 x Power Button 1 x Power Button 1 x Power Button 1 st Power Button 1 st Power Button 1 st Power Button 1 st Power Button 1 st Power Cable 2 styles Kit + Screw 1 styles Kit + Screw 1 styles Kit + Screw 1 s		CANBUS				
Accessory	Control		1 x Power Button, 6 x Function Button	1 x Power Button, 6 x Function Button		
Accessory O.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS ALTE Magnetic Combo Antenna WWAN Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable O.15M Power Converter Cable DC Jack Power Cable OD Jack Power Cable OD Jack Power Converter Cable OD Sat Power Cable OD Sat Wit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE 5M Combo Antenna (VM10S) GPS Attenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable	Controt	Dutton				
Accessory S4W Adapter with power cable Quick Start Guide Stylus Kit + Screw			0.15M Power Converter Cable	0.15M Power Converter Cable		
Accessory Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE 5M Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable Stylus Kit + Screw 1.8M RS232 Cable 1.8M RS232 Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE 5M Combo Antenna (VM10S) GPS ALTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable	Accessory	Accessory				
Accessory 1. ŚM RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable 1. ŚM RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable COM Port + CANBus Cable						
Optional Accessory GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable COM Port + CANBus Cable GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable			1.8M RS232 Cable 2M IP65 LAN Cable	1.8M RS232 Cable 2M IP65 LAN Cable		
Cable Clamp Kit Comport + CANBus Cable Comport + CANBus Cable Comport + CANBus Cable		Optional Accessory	GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna	GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna		
			Cable Clamp Kit COM Port + CANBus Cable	Cable Clamp Kit COM Port + CANBus Cable		
PowerPower Rating10V~60V with ignition control10V~60V with ignition control	Power	Power Rating	10V~60V with ignition control 10V~60V with ignition control			

Specifications: FM10AD-V



Model	Name	FM10AD-V	
	Resolution	1024x768	
	Size	10.4 inches	
	Contrast Ratio	1200:1	
Display	Panel Brightness	400 nits	
		800 nits(Optional)	
	View Angles	88,88,88,88	
	Touch Mode	Support Hand, Stylus, Glove Mode	
	Processor	Intel® Core™ i5-1235U 3.30 GHz (up to 4.40 GHz)	
	Memory	8GB DDR5 SDRAM, up to 32GB	
	Storage	128GB NVMe SSD 256GB NVMe SSD (Optional)	
	Security	TPM 2.0	
System	Operating System	Windows 10 IoT Enterprise	
Specification	WLAN	Support	
	BT	Support	
	WWAN	LTE/5G Sub 6 (Optional)	
	GNSS	GPS, GLONASS (Optional)	
	Sensors	G-Sensor, Light Sensor ,Temp Sensor	
	Dimension	268.1 x 214 x 51 mm	
Marshautari	Mounting	VESA Mount	
Mechanical	Weight	2.4 kg	
	Cooling System	Fanless Design	
	Operating Humidity	5% to 95% RH, Non-Condensing	
	Operating Temperature	-30°C to 50°C	
	Storage Temperature	-30°C to 60°C	
	Shock	MIL-STD-810H Method 516.8 Procedure I	
Environment	Vibration	MIL-STD-810H Method 514.8 Procedure I	
	IP rating	IP65	
	Impact	Support EN62262 IK07 Rating	
	ESD	Compliant with EN 61000-4-2, Enhanced ESD to ±8kV Direct & ±15kV Air	
Certification	Certification	CE, FCC	
	USB Port	1 x USB 3.0 Type C 1 x USB 2.0 Port	
	Serial Port	2 x RS232/422/485 (Default RS232)	
	Audio	1 x Audio(Mic in & Line Out) either one with DIDO (Optional)	
	IAN	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)	
IO Ports			
	SD Card Slot	1 x Micro SD Card Slot	
	SIM Card Slot	1 x SIM Card Slot	
	Indicator	6 x LED Indicator	
	DIDO	1 x DIDO (2XDI ;2XDO) either one with Audio (Optional)	
0 ()	CANBUS	1 x CANBus (Optional)	
Control	Button	1 x Power Button, 6 x Function Button (Programmable Function Key Configured by Winset)	
	Accessory	1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide	
Accessory	Optional Accessory	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable COM Port + DIDO Cable	
Power	Power Rating	10V~60V with ignition control	
rower	Power Rating	LOAMOOA MITHIBLITTOH COLITION	

Specifications: FM12Q-V/FM12E-V





Model	Name	FM12Q-V	FM12E-V
	Resolution	1024x768	1024x768
	Size	12.1 inches	12.1 inches
	Туре	Projected Capacitive Multi Touch	Projected Capacitive Multi Touch
Display	Contrast Ratio	1000:1	1000:1
/	Panel Brightness	400 nits 800 nits(Optional)	400 nits 800 nits(Optional)
	View Angles	89,89,89	89,89,89
	Touch Mode	Support Hand, Stylus, Glove Mode	Support Hand, Stylus, Glove Mode
	Processor	Qualcomm® Snapdragon™ 660 (Octa-Core 2.2	Intel Atom x6413E 1.5GHz
		GHz)	1 x SO-DIMM, DDR4 3200 MHz, 4GB
	Memory	3GB	8GB (Optional)
	Storage	32GB	1 x M.2 2242 SSD 128GB 256GB (Optional)
Cuatam	Operating System	Android 9.0	Windows 10 IoT Enterprise (64 bit)
System Specification	Security	-	TPM 2.0
Specification	BT	Support	Support
	WLAN	Support	Support
	WWAN	4G/LTE (Optional)	4G/LTE (Optional)
	GNSS	GPS/GLONASS (Optional)	GPS/GLONASS (Optional)
	Sensors	G-Sensor, Temp. Sensor	G-Sensor, Light Sensor ,Temp Sensor
	Dimension	306.6 x 225 x 56.6 mm	306.6 x 225 x 56.6 mm
Mechanical	Mounting	VESA Mount	VESA Mount
	Weight	2.5 kg	2.5 kg
	Cooling System	Fanless Design	Fanless Design
Camera	Front Camera	2MP Camera	2MP Camera
	Operating Humidity	5% to 95% RH, Non-Condensing	5% to 90% RH, Non-Condensing
	Operating Temperature	-30°C to 50°C	-30°C to 50°C
	Storage Temperature Shock	-30°C to 60°C MIL-STD-810H Method 516.8 Procedure I	-30°C to 60°C MIL-STD-810H Method 516.8 Procedure I
Environment	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	IP rating	IP65	IP65
	Impact	Support EN62262 IK07 Rating	Support EN62262 IK07 Rating
	ESD	Compliant with EN 61000-4-2,	Compliant with EN 61000-4-2, enhanced ESD to
0 416 41		Enhanced ESD to ±8kV Direct & ±15kV Air	±12kV direct & ±15kV air
Certification	Certification	CE, FCC 1 x USB 3.0 Type C (OTG)	CE, FCC 1 x USB Type-C
	USB Port	1 x USB 2.0 Port	1 x USB 2.0 Type-A
	Serial Port	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)
	LAN	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)
	Audio	1 x Audio(Mic in & Line Out) either one with DIDO	1 x Audio(Mic in & Line Out) either one with DIDO
IO Ports	SD Card Slot	(Optional) 1 x Micro SD Card Slot	(Optional) 1 x Micro SD Card Slot
	SIM Card Slot	1 x Dual-Nano SIM Card Slot	1 x Dual-Nano SIM Card Slot
	Indicator	3 x LED Indicator	4 x LED Indicator
		(WLAN, UPS battery, Heater) 1 x DIDO (2XDI ;2XDO) either one with Audio	(WLAN, UPS battery, HDD, Heater) 1 x DIDO (2XDI : 2XDO) either one with Audio
	DIDO	(Optional)	(Optional)
	CANBUS	1 x CANBus (Optional)	1 x CANBUS (Optional)
Control	Button	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by Winset)	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by Winset)
Accessory	Accessory	1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide	1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide
	Optional Accessory	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable COM Port + DIDO Cable	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable COM Port + DIDO Cable
Power	Power Rating	10V~60V with ignition control	10V~60V with ignition control
		<u> </u>	9 44 44 44

Specifications: FM12AD-V



Model	Name	FM12AD-V	
	Resolution	1024x768	
	Size	12.1 inches	
	Contrast Ratio	1000:1	
Display	Panel Brightness	400 nits	
		800 nits(Optional)	
	View Angles	89,89,89,89	
	Touch Mode Processor	Support Hand, Stylus, Glove Mode Intel® Core™ i5-1235U 3.30 GHz (up to 4.40 GHz)	
	Memory	8GB DDR5 SDRAM, up to 32GB	
	,		
	Storage	128GB NVMe SSD 256GB NVMe SSD (Optional)	
	Security	TPM 2.0	
System	Operating System	Windows 10 IoT Enterprise	
Specification	WLAN	Support	
	BT	Support	
	WWAN	LTE/5G Sub 6 (Optional)	
	GNSS	GPS, GLONASS (Optional)	
	Sensors	G-Sensor, Light Sensor ,Temp Sensor	
Camera	Front Camera	2MP Camera	
	Dimension	306.6 x 225 x 56.6 mm	
Mechanical	Mounting	VESA Mount	
Mechanicat	Weight	2.5 kg	
	Cooling System	Fanless Design	
	Operating Humidity	5% to 95% RH, Non-Condensing	
	Operating Temperature	-30°C to 50°C	
	Storage Temperature	-30°C to 60°C	
Environment	Shock	MIL-STD-810H Method 516.8 Procedure I	
Environment	Vibration	MIL-STD-810H Method 514.8 Procedure I	
	IP rating	IP65	
	Impact	Support EN62262 IK07 Rating	
	ESD	Compliant with EN 61000-4-2, Enhanced ESD to ±8kV Direct & ±15kV Air	
Certification	Certification	CE, FCC	
	USB Port	1 x USB 3.0 Type C	
		1 x USB 2.0 Port	
	Serial Port Audio	2 x RS232/422/485 (Default RS232) 1 x Audio(Mic in & Line Out) either one with DIDO (Optional)	
		1 x Addiowing in a time out, either one with DIDO (Optional)	
IO Ports	LAN	PSE (IEEE 802.3at 30W) (Optional)	
IO FOI LS	SD Card Slot	1 x Micro SD Card Slot	
	SIM Card Slot	1 x Dual-Nano SIM Card Slot	
	Indicator	4 x LED Indicator	
	DIDO	1 x DIDO (2XDI ;2XDO) either one with Audio (Optional)	
	CANBUS	1 x CANBus (Optional)	
Control	Button	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by Winset)	
	Accessory	1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide	
Accessory	Optional Accessory	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANB	
Power	Power Pating	COM Port + DIDO Cable	
Power	Power Rating	10V~60V with ignition control	

Specifications: FM14Q-V/FM14E-V



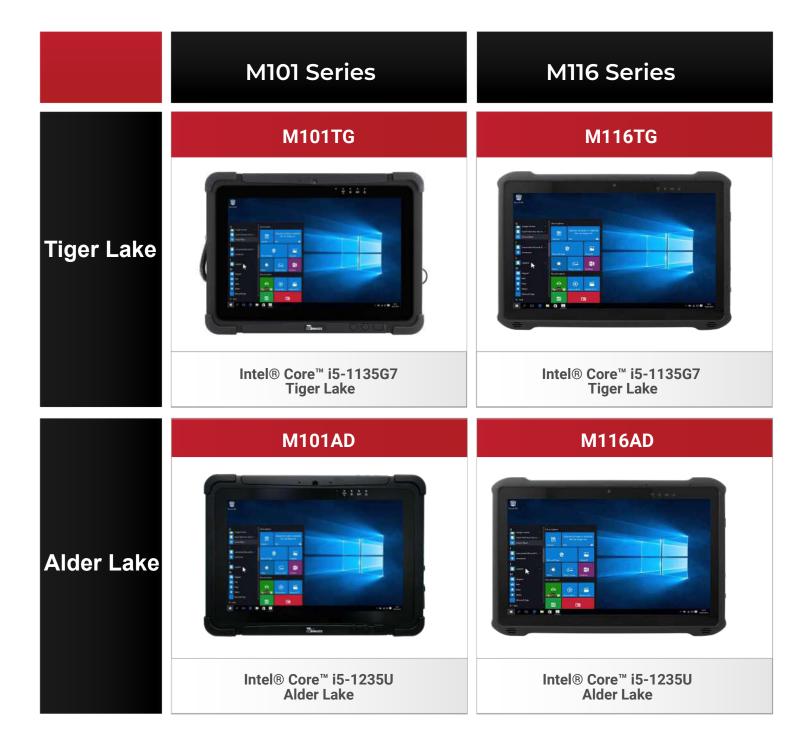


Mode	el Name	FM14Q-V	FM14E-V
	Resolution	1920x1080	1920x1080
Display	Size	14.0 inches	14.0 inches
	Туре	Projected Capacitive Multi Touch	Projected Capacitive Multi Touch
	Contrast Ratio	800:1	800:1
. ,	Panel Brightness	700.0 nits	700.0 nits
	View Angles	85,85,85,85	85,85,85,85
	Bonding	Optical Bonding for Sunlight Viewability	Optical Bonding for Sunlight Viewability
	Processor	Qualcomm® Snapdragon™ 660 (Octa-Core 2.2 GHz)	Intel Atom x6413E 1.5GHz
	Memory	3GB	1 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional)
	Storage	32GB	1 x M.2 2242 SSD 128GB 256GB (Optional)
System	Operating System	Android 9.0	Windows 10 IoT Enterprise (64 bit)
Specification	Security	-	TPM 2.0
opecinication	BT	Support	Support
	WLAN	Support	Support
	WWAN	4G/LTE (Optional)	4G/LTE (Optional)
	GNSS	GPS/GLONASS (Optional)	GPS/GLONASS (Optional)
	Sensors	G-Sensor, Temp. Sensor	G-Sensor, Light Sensor ,Temp Sensor
	Dimension	342 x 225 x 52 mm	342 x 225 x 52 mm
Mechanical	Mounting	VESA Mount	VESA Mount
Mechanical	Weight	2.5 kg	2.5 kg
	Cooling System	Fanless Design	Fanless Design
	Operating Humidity	5% to 95% RH, Non-Condensing	5% to 90% RH, Non-Condensing
	Operating Temperature	-30°C to 50°C	-30°C to 50°C
	Storage Temperature	-30°C to 60°C	-30°C to 60°C
	Shock	MIL-STD-810H Method 516.8 Procedure I	MIL-STD-810H Method 516.8 Procedure I
Environment	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	IP rating	IP65	IP65
	Impact	Support EN62262 IK07 Rating	Support EN62262 IK07 Rating
	ESD	Compliant with EN 61000-4-2, Enhanced ESD to ±8kV Direct & ±15kV Air	Compliant with EN 61000-4-2, enhanced ESD to ±12kV direct & ±15kV air
Certification	Certification	CE, FCC	CE, FCC
Camera	Front Camera	2MP Camera	2MP Camera
	USB Port	1 x USB 3.0 Type C (OTG) 1 x USB 2.0 Port	1 x USB 3.0 Type C 1 x USB 2.0 Port
	Serial Port	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)
	LAN	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)
	Audio	1 x Audio(Mic in & Line Out) either one with DIDO (Optional)	1 x Audio(Mic in & Line Out) either one with DIDO (Optional)
IO Ports	SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
	SIM Card Slot	1 x Dual-Nano SIM Card Slot	1 x Dual-Nano SIM Card Slot
	Indicator	3 x LED Indicator	4 x LED Indicator
	DIDO	1 x DIDO (2XDI ;2XDO) either one with Audio (Optional)	1 x DIDO (2XDI ; 2XDO) either one with Audio (Optional)
	CANBUS	1 x CANBus (Optional)	1 x CANBUS (Optional)
Control	Button	1 x Power Button, 4 x Function Button	1 x Power Button, 4 x Function Button
Accessory	Accessory	(Programmable Function Key Configured by Winset) 1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide	(Programmable Function Key Configured by Winset) 1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide
	Optional Accessory	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE Magnetic Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBUS Cable
Power	Power Pating	COM Port + DIDO Cable	COM Port + DIDO Cable
Power	Power Rating	10V~60V with ignition control	10V~60V with ignition control

Specifications: FM14AD-V



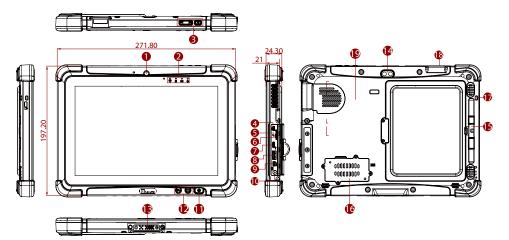
Model	Name	FM14AD-V			
	Resolution	1920×1080			
	Size	14.0 inches			
	Туре	Projected Capacitive Multi Touch			
Display	Contrast Ratio	800:1			
,	Panel Brightness	700 nits			
	Bonding	85,85,85,85			
	Touch Mode	Optical Bonding for Sunlight Viewability			
	Processor	Intel® Core™ i5-1235U 3.30 GHz (up to 4.40 GHz)			
	Memory	8GB DDR5 SDRAM, up to 32GB			
	Storage	128GB NVMe SSD 256GB NVMe SSD (Optional)			
	Security	TPM 2.0			
System	Operating System	Windows 10 IoT Enterprise			
Specification	WLAN				
	BT	Support Support			
	WWAN	LTE/5G Sub 6 (Optional)			
	GNSS	GPS, GLONASS (Optional)			
	Sensors	G-Sensor, Light Sensor ,Temp Sensor			
	Dimension	342 x 225 x 52 mm			
	Mounting	VFSA Mount			
Mechanical	Weight	2.5 kg			
	Cooling System	Fanless Design			
	Operating Humidity	5% to 90% RH, Non-Condensing			
	Operating Temperature	-30°C to 50°C			
	Storage Temperature	-30°C to 60°C			
	Shock	MIL-STD-810H Method 516.8 Procedure I			
Environment	Vibration	MIL-STD-810H Method 514.8 Procedure I			
	IP rating	IP65			
	Impact	Support EN62262 IK07 Rating			
	ESD	Compliant with EN 61000-4-2, Enhanced ESD to ±8kV Direct & ±15kV Air			
Certification	Certification	CE, FCC			
	USB Port	1 x USB 3.0 Type C 1 x USB 2.0 Port			
	Serial Port	1 x USB 2.0 Port 2 x RS232/422/485 (Default RS232)			
	Audio	1 x Audio(Mic in & Line Out) either one with DIDO (Optional)			
IO Ports	LAN	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)			
10 10113	SD Card Slot	1 x Micro SD Card Slot			
	SIM Card Slot	1 x SIM Card Slot			
	Indicator	4 x LED Indicator			
	DIDO	1 x DIDO (2XDI ;2XDO) either one with Audio (Optional)			
	CANBUS	1 x CANBus (Optional)			
Control	Button	1 x Power Button, 4 x Function Button (Programmable Function Key Configured by Winset)			
	Accessory	1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide			
Accessory	Optional Accessory	Stylus Kit + Screw 1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE 5M Combo Antenna (VM10S) GPS Antenna WWAN Antenna 2M Waterproof USB Type-A to A Cable Cable Clamp Kit COM Port + CANBus Cable COM Port + DIDO Cable			
Power	Power Rating	10V~60V with ignition control			
1 OWEI	1 Ower Watting	10 V - 00 V WILLI I grillion control			



Form Factor

M101TG

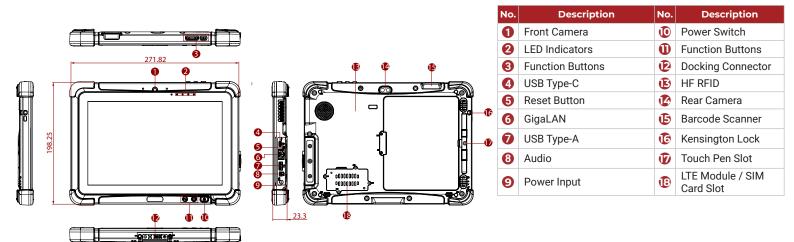
10.1 inch



No.	Description	No.	Description
0	Front Camera	1	Power Switch
2	LED Indicators	P	Function Buttons
3	Function Buttons	B	Docking Connector
4	Micro HDMI	14	Rear Camera
6	Reset Button	Œ	Touch Pen Slot
6	Micro SD Card Slot	16	LTE Module / SIM Card Slot
7	USB Type-C	1	Kensington Lock
8	USB Type-A	18	Barcode Scanner
9	Audio	19	HF RFID
•	Power Input		

M101AD

10.1 inch

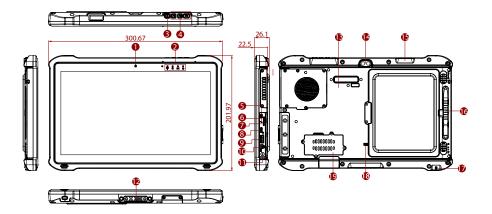




Form Factor

M116TG

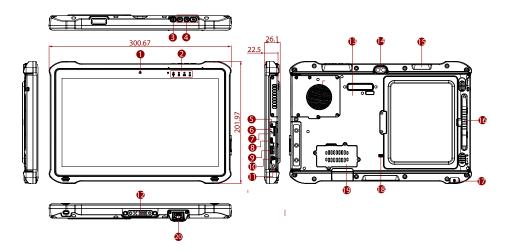
11.6 inch



No.	Description	No.	Description
0	Front Camera	1	Power Input
2	LED Indicators	12	Docking Connector
3	Power Switch	B	HF RFID
4	Function Buttons	14	Rear Camera
6	Micro HDMI	(Barcode Scanner
6	Reset Button	16	Touch Pen Slot
7	Micro SD Card Slot	D	Kensington Lock
8	USB Type-C	1	SIM Card Slot
9	USB Type-A	19	LTE Module
1	Audio		

M116AD

11.6 inch



No.	Description	No.	Description
0	Front Camera	1	Power Input
2	LED Indicators	P	Docking Connector
3	Power Switch	B	HF RFID
4	Function Buttons	14	Rear Camera
6	Micro HDMI	Œ	Barcode Scanner
6	Reset Button	16	Touch Pen Slot
7	Micro SD Card Slot	1	Kensington Lock
8	USB Type-C	18	SIM Card Slot
9	USB Type-A	19	LTE Module
1	Audio	20	GigaLAN





Specifications: M101TG/M101AD





Model	l Name	M101TG	M101AD
	Resolution	1920×1200	1920×1200
	Size	10.1 inches	10.1 inches
	Туре	Projected Capacitive Multi Touch	Projected Capacitive Multi Touch
	Contrast Ratio	800:1	800:1
Display	Panel Brightness	800.0 nits	800 nits
	View Angles	85,85,85,85	85,85,85,85
	Bonding	Optical Bonding for Sunlight Viewability	Optical Bonding for Sunlight Viewability
	Viewability	Anti-Glare touch treatment	Anti-Glare touch treatment
	Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)	Intel Core i51235U(up to 4.40GHz)
	Memory	8GB DDR4 SDRAM 16GB DDR4 SDRAM (Optional) 32GB DDR4 SDRAM (Optional)	8GB DDR5 SDRAM 16GB DDR5 SDRAM (Optional) 32GB DDR5 SDRAM (Optional)
	Storage	256GB SSD Additional storage available with micro SDXC card slot 512GB SSD (Optional) 1TB SSD (Optional) 2TB SSD (Optional)	256GB SSD Additional storage available with micro SDXC card slot 512GB SSD (Optional) 1TB SSD (Optional) 2TB SSD (Optional)
System	Operating System	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional)
Specification	Security	Trusted Platform Module (TPM) 2.0 Kensington Lock	Trusted Platform Module (TPM) 2.0 Kensington Lock
	ВТ	Support	Support
	WLAN	Support	Support
	WWAN	4G LTE (Optional) 5G (Optional)	Support 4G LTE/5G (TelitFN990A28)
	GNSS	GPS, GLONASS	GPS, GLONASS
	RFID	HF RFID reader 13.56 MHz (Optional)	HF RFID reader 13.56 MHz (Optional)
	Sensors	Light sensor / Gyro	Light sensor/ Gsensor/ Gyro
	Dimension	271.8 x 197.2 x 21 mm	271.8 x 198.3 x 21 mm
Mechanical	Weight	1.3 kg (2.86 lbs) with standard battery	1.3 kg (2.86 lbs) with standard battery
	Cooling System	Fan design	Fan design
	Operating Humidity	10% to 90% RH, non-condensing	10% to 90% RH, noncondensing
	Operating Temperature	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), 10°C to 50°C (Battery mode)
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)
Environment	Shock	MIL-STD-810H Method 516.8 Procedure I	MIL-STD-810H Method 516.8 Procedure I
	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 4 ft	MIL-STD-810H Method 516.8, 4 ft
	IP rating	IP65	IP65
Certification	Certification	CE, FCC	CE, FCC
Camera	Front Camera	2MP Front Camera	2MP Camera
Carriera	Rear Camera	8MP Rear Camera with auto-focus and LED light	8MP Rear Camera with autofocusand LED light
	USB Port	1 x USB 3.0 (Type A), 1 x USB 3.0 (Type-C support Power Delivery 20V In)	1 x USB 3.0(Type A),1x USB 3.0(TypeC support Power Delivery, ALT mode)
	Video	1 x Micro HDMI (Optional)	-
IO Devite	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation Dual Speaker
IO Ports	SD Card Slot	1 x Micro SDXC slot	1 x Micro SDXC slot
	SIM Card Slot	1 x Micro SIM card slot	1 x Nano SIM card slot
	Indicator	4x LED Indicator for Power, Battery, HDD, RF status	4x LED Indicator for Power, Battery, HDD, RF status
	Docking Connector	1 x 19-pin docking connector	1 x 19pin docking connector
	LAN	-	1 x RJ45 GigaLAN Port
Control	Button	1 x Power, 1 x Home 2 x volume key 2 x Programmable function Keys	1 x Power, 1 x Home 2 x Volume key 2 x Programmable function Keys
	Accessory	Adapter and Power Cord Capacitive Stylus Standard Battery	Adapter and Power Cord Capacitive Stylus Standard Battery
Accessory	Optional Accessory	Desk Dock (Optional) Vehicle Dock (without VGA output) (Optional) Vehicle Cradle (Optional) Vehicle Charger (Optional) High Capacity Battery (Optional) Hand Strap (Optional) Shoulder Strap (Optional)	Desk Dock (Optional) Vehicle Dock (without VGA output) (Optional) Vehicle Cradle (Optional) Vehicle Charger (Optional) High Capacity Battery (Optional) Hand Strap (Optional) Shoulder Strap (Optional)
Power	Power Pating	Carry Bag (Optional) 19V DC	Carry Bag (Optional) 19V DC
Power	Power Rating	17 V DC	17 0 0 0

Specifications: M116TG/M116AD





Model Name		M116TG	M116AD
	Resolution	1920x1080	1920x1080
	Size	11.6 inches	11.6 inches
	Туре	Projected Capacitive Multi Touch	Projected Capacitive Multi Touch
	Contrast Ratio	1000:1	1000:1
Display	Panel Brightness	850.0 nits	850.0 nits
. ,	View Angles	85,85,85,85	85,85,85,85
	Bonding	Optical Bonding for Sunlight Viewability	Optical Bonding for Sunlight Viewability
	Viewability	Anti-Glare touch treatment	Anti-Glare touch treatment
	Touch Mode	Support Hand/Rain, Stylus, Glove Mode	Support Hand/Rain, Stylus, Glove Mode
	Processor	Intel Core i5-1135G7 2.4GHz (up to 4.2GHz)	Intel Core i5-1235U 1.3GHz (up to 4.4GHz)
	Memory	4GB DDR4 SDRAM 8GB DDR4 SDRAM (Optional) 16GB DDR4 SDRAM (Optional) 32GB DDR4 SDRAM (Optional)	8GB DDR5 SDRAM 16GB DDR5 SDRAM (Optional) 32GB DDR5 SDRAM (Optional)
System	Storage	128GB SSD Additional storage available with micro SDXC card slot 256GB SSD (Optional) 512GB SSD (Optional) 1TB SSD (Optional) 2TB SSD (Optional)	Additional storage available with micro SDXC card slot 256GB SSD 512GB SSD (Optional) 1TB SSD (Optional) 2TB SSD (Optional)
Specification	Operating System Security	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional) Trusted Platform Module (TPM) 2.0 Kensington Lock	Windows 10 IoT Enterprise LTSC (64 bit) Windows 11 IoT Enterprise SAC (64 bit) (Optional) Trusted Platform Module (TPM) 2.0 Kensington Lock
	BT	Support Support	Support
	WLAN	Support	Support
	WWAN	4G LTE (Optional) 5G (Optional)	4G LTE (Optional) 5G (Optional)
	GNSS	GPS, GLONASS	GPS, GLONASS
	Sensors	Light sensor / G-sensor / Gyro	Light sensor / G-sensor / Gyro
	Dimension	300.67 x 201.97 x 22.5 mm	300.67 x 201.97 x 22.5 mm
Mechanical	Weight	1.5 kg (3.3 lbs) with standard battery	1.5 kg (3.3 lbs) with standard battery
	Cooling System	Fan design	Fan design
	Operating Humidity	10% to 90% RH, non-condensing	10% to 90% RH, non-condensing
	Operating Temperature	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)	-20°C to 60°C (AC mode), -10°C to 50°C (Battery mode)
	Storage Temperature	-30°C to 70°C (-22°F to 158°F)	-30°C to 70°C (-22°F to 158°F)
Environment	Shock	MIL-STD-810H Method 516.8 Procedure I	MIL-STD-810H Method 516.8 Procedure I
	Vibration	MIL-STD-810H Method 514.8 Procedure I	MIL-STD-810H Method 514.8 Procedure I
	Drop	MIL-STD-810H Method 516.8, 4 ft	MIL-STD-810H Method 516.8, 4 ft
	IP rating	IP65	IP65
Certification	Certification	CE, FCC	CE, FCC
	Front Camera	2MP Front Camera	2MP Front Camera
Camera	Rear Camera	8MP Rear Camera with auto-focus and LED light	8MP Rear Camera with auto-focus and LED light
	USB Port		1 x USB 3.0 (Type A), 1 x USB 3.0 (Type-C support Power Delivery 20V In)
	LAN	1 x RJ45-10/100/1000 GigaLAN port (Optional)	1 x RJ45-10/100/1000 GigaLAN port (Optional)
IO Ports	Audio	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation	1 x Audio combo 3.5mm audio combo jack Dual Digital Mic With Noise Cancellation
	SD Card Slot	1 x Micro SDXC slot	1x Micro SDXC slot
	SIM Card Slot	1 x Micro SIM card slot	1 x Micro SIM card slot
	Indicator Docking Connector	4x LED Indicator for Power, Battery, HDD, RF status 1 x 19-pin docking connector	4x LED Indicator for Power, Battery, HDD, RF status 1 x 19-pin docking connector
0	-		1
Control	Button	1 x Power,3 x function keys Adapter and Power Cord	1 x Power,3 x function keys Adapter and Power Cord
Accessory	Accessory Optional Accessory	Capacitive Stylus Standard Battery Desk Dock (Optional) Vehicle Dock (Optional) Vehicle Cradle (Optional) Vehicle Charger (Optional) High Capacity Battery (Optional) Hand Strap (Optional) Shoulder Strap (Optional)	Capacitive Stylus Standard Battery Desk Dock (Optional) Vehicle Dock (Optional) Vehicle Cradle (Optional) Vehicle Charger (Optional) High Capacity Battery (Optional) Hand Strap (Optional) Shoulder Strap (Optional)
		Carry Bag (Optional)	Carry Bag (Optional)
Power	Power Rating	19V DC	19V DC





