

# FM14E-V

## 14" Windows Vehicle Computer with Intel® Elkhart lake x6425E



### KEY FEATURES

- Intel® Elkhart lake x6425E Processor vehicle computer
- 14" 1920 x 1080 Panel with PCAP touch screen
- IP65 waterproof and dustproof
- Wide power input 10-60V DC with ignition
- Wide range operating temperature
- Support VESA Mount



### OVERVIEW



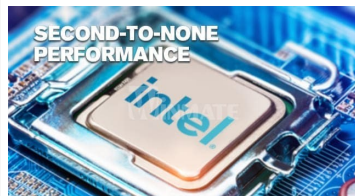
#### Vibration and shock-proof design ensure reliable performance

Winmate FM14E-V is rugged enough to survive harsh industrial environments. Its solid enclosure enhances its durability according to the MIL-STD-810H standard and IP65 water and dust protection. The Winmate FM14E-V is ready for your harshest environments.



#### Wider Screen

The FM14E-V features a wider PCAP touch screen offering visibility and productivity in various environments and applications.



#### High-Performance CPU

The FM14E-V is powered by the Intel Elkhart Lake Series processors to support the next generation of Industrial IoT. Provide better graphics performance and connectivity for integrated IoT features, real-time data management, and work efficiency.



#### Reliable computing under extreme operating temperatures

Get frost and condensation-free operation in the freezer. The Winmate all-in-one vehicle mount computer is designed to seamlessly fit most warehouses, cold supply chains, and heavy-duty vehicles. It features a set of programmable keys and a glove-friendly touchscreen to simplify complex operations.

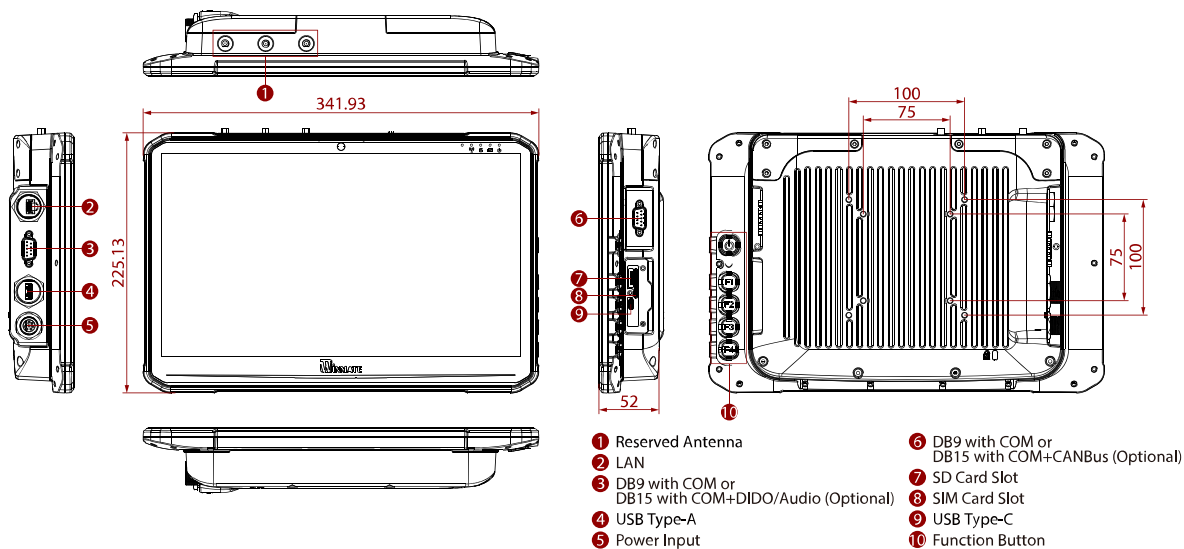
### SPECIFICATIONS

Display	
Bonding	Optical Bonding for Sunlight Viewability
Size	14.0 inches
Panel Brightness	700.0 nits
Type	Projected Capacitive Multi Touch
Resolution	1920x1080
Contrast Ratio	800:1
View Angles	85,85,85,85
System Specification	
Processor	Intel Atom x6413E 1.5GHz (up to 3GHz) Intel Atom x6425E 2GHz (up to 3GHz) (Optional)
Storage	1 x M.2 2242 SSD 128GB 256GB (Optional)
Operating System	Windows 10 IoT Enterprise LTSC (64 bit)
Memory	1 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional)
Security	TPM 2.0
WLAN	Support

<b>BT</b>	Windows 11 IoT Enterprise LTSC (64 bit) (Optional) Support	<b>WWAN</b>	4G/LTE (Optional)
<b>GNSS</b>	GPS/GLONASS (Optional)	<b>Sensors</b>	G-Sensor, Light Sensor, Temp Sensor
<b>Camera</b>			
<b>Front Camera</b>	2MP Camera		
<b>Mechanical</b>			
<b>Dimension</b>	342 x 225 x 52 mm	<b>Weight</b>	2.5 kg
<b>Mounting</b>	VESA mount	<b>Cooling System</b>	Fanless Design
<b>IO Ports</b>			
<b>USB Port</b>	1 x USB 3.0 Type C 1 x USB 2.0 Port	<b>Serial Port</b>	2 x RS232/422/485 (Default RS232)
<b>SD Card Slot</b>	1 x Micro SD Card Slot	<b>SIM Card Slot</b>	1 x Dual-Nano SIM Card Slot
<b>Audio</b>	1 x Audio(Mic in & Line Out) either one with DIDO (Optional)	<b>LAN</b>	1 x Gigabit LAN port PSE (IEEE 802.3at 30W) (Optional)
<b>Indicator</b>	4 x LED Indicator	<b>DIDO</b>	1 x DIDO (2XDI ; 2XDO) either one with Audio (Optional)
<b>CANBUS</b>	1 x CANBus (Optional)		
<b>Environment</b>			
<b>Operating Humidity</b>	5% to 90% RH, Non-Condensing	<b>Operating Temperature</b>	-30°C to 60°C
<b>Storage Temperature</b>	-30°C to 60°C	<b>Shock</b>	MIL-STD-810H Method 516.8 Procedure I
<b>Vibration</b>	MIL-STD-810H Method 514.8 Procedure I	<b>IP rating</b>	IP65
<b>Impact</b>	Support EN62262 IK07 Rating	<b>ESD</b>	Compliant with EN 61000-4-2, enhanced ESD to ±12kV direct & ±15kV air
<b>Certification</b>			
<b>Certification</b>	CE, FCC FCC (Electromagnetic Emissions), IC (ICES-003) UL60950-1, EN60950-1, PTCRB		
<b>Control</b>			
<b>Button</b>	1 x Power Button, 4 x Function Button (Programmable Function Key Configured by Winset)		
<b>Power</b>			
<b>Battery</b>	400mAh UPS Battery for 20 minutes backup (Optional)	<b>Power Rating</b>	10V~60V with ignition control
<b>Consumption</b>	45W (Typical)		
<b>Security Function</b>			
<b>SOTI MobiControl</b>	SOTI MobiControl Compliance		

<b>Accessory</b>			
<b>Accessory</b>	1.8M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide	<b>Optional Accessory</b>	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

## DIMENSIONS UNIT:MM



## NOTE

1. Total usable memory will be less dependent upon actual system configuration.
2. SOTI is available upon request.
3. Length measurements do not include protrusions. Weight varies with options.
4. Measured at dimming LCD brightness. Varies depending on the usage conditions, or when an external device is attached.
5. The UPS battery is only expected to use for backup under low system loading and without I/O function.
5. Accessories may vary depending on your configuration.
6. This is a simplified drawing and some components are not marked in detail.
7. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.
8. COM port can supply 5V power via the 9th pin.