

# 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



### SPECIFICATIONS

Display			
<b>Bonding</b>	Optical Bonding for Sunlight Viewability	<b>Resolution</b>	1920x1080
<b>Size</b>	14 inches	<b>Contrast Ratio</b>	800:1
<b>Panel Brightness</b>	700 nits	<b>View Angles</b>	85,85,85,85
<b>Type</b>	Projected Capacitive Multi Touch		
System Specification			
<b>Processor</b>	Intel Atom® x6425E (1.5M Cache, up to 3.00 GHz)	<b>Memory</b>	1 x SO-DIMM, DDR4 3200 MHz, 4GB 8GB (Optional)
<b>Storage</b>	1 x M.2 2242 SSD 128GB 256GB (Optional)	<b>Security</b>	TPM 2.0
<b>Operating System</b>	Windows 10 IoT Enterprise	<b>WLAN</b>	Support
<b>BT</b>	Support	<b>WWAN</b>	4G/LTE (Optional)
<b>GNSS</b>	GPS/GLONASS (Optional)	<b>Sensors</b>	G-Sensor, Light Sensor ,Temp Sensor
Camera			
<b>Front Camera</b>	2MP Camera		
Mechanical			
<b>Dimension</b>	342 x 225 x 52 mm	<b>Weight</b>	2.5 kg
<b>Mounting</b>	RAM Mount/ VESA Mount	<b>Cooling System</b>	Fanless Design
IO Ports			
<b>USB Port</b>	1 x USB 3.0 Type C (OTG) 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 or 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 (2XD1 ; 2XDO) either one with Audio (Optional)
<b>CANBUS</b>	1 x CANBus (Optional)		
Environment			
<b>Operating Humidity</b>	5% to 90% RH, Non-Condensing	<b>Operating Temperature</b>	-30°C to 50°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>Security Function</b>			
<b>SOTI MobiControl</b>	SOTI MobiControl Compliance		
<b>Accessory</b>			

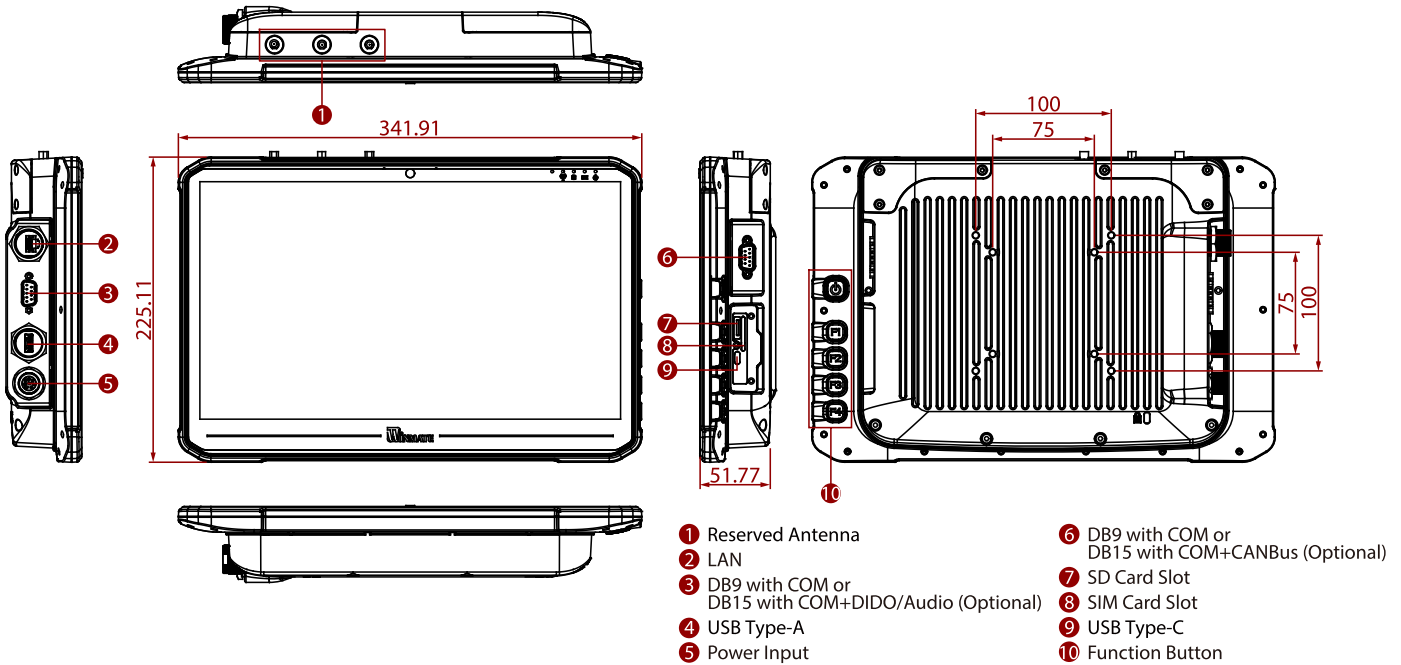
**Accessory**

- 5M 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 2M Combo Antenna(VM240)
- 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



- ① Reserved Antenna
- ② LAN
- ③ DB9 with COM or DB15 with COM+DIDO/Audio (Optional)
- ④ USB Type-A
- ⑤ Power Input
- ⑥ DB9 with COM or DB15 with COM+CANBus (Optional)
- ⑦ SD Card Slot
- ⑧ SIM Card Slot
- ⑨ USB Type-C
- ⑩ Function Button

## 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.