FM12E-V

12.1" Windows Forklift Computers with Intel® Elkhart lake x6425E

KEY FEATURES

- Intel® Elkhart lake x6425E Processor, Windows forklift computers
- 12.1" 1024 x 768 Panel with PCAP touch screen
- IP65 waterproof and dustproof
- Wide power input 9-36V DC with ignition
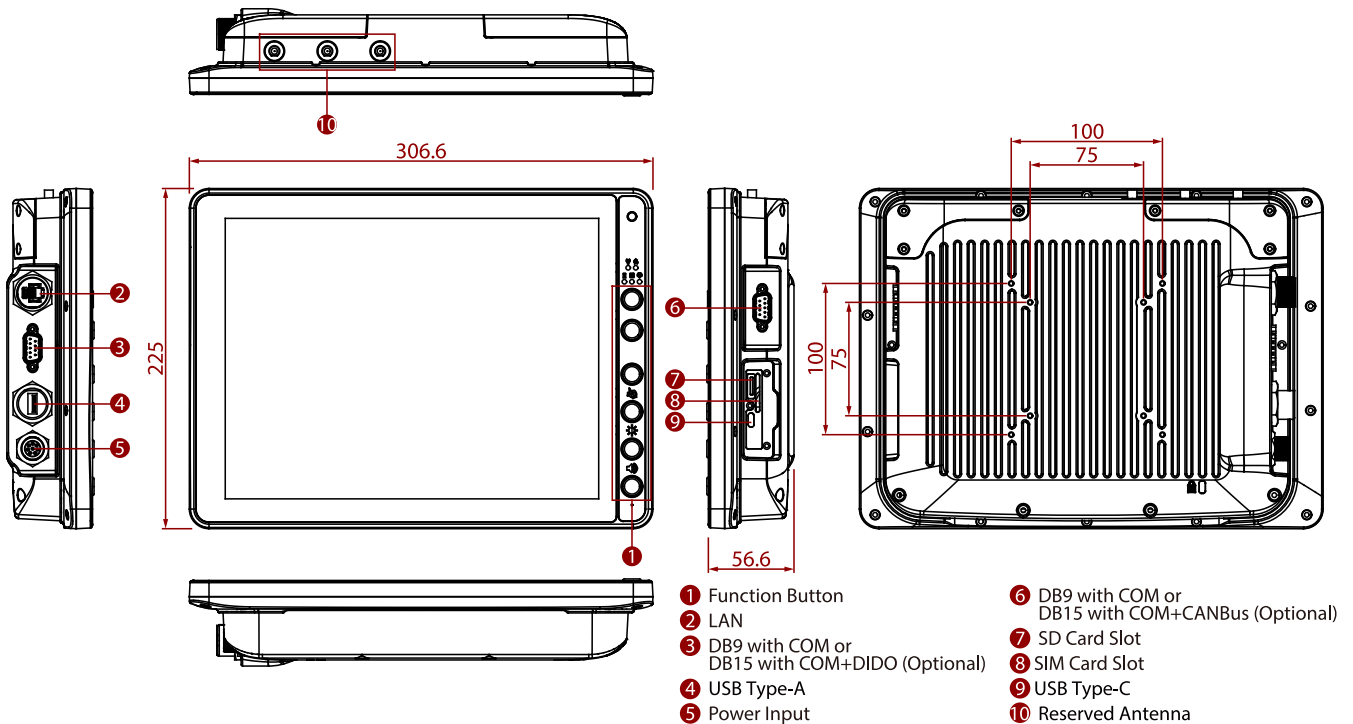- Wide range operating temperature
- Support VESA Mount

CE FC IP65 COMPLIANT MIL-STD 810H

SPECIFICATIONS

Display

Type	Projected Capacitive Multi Touch	**Touch Mode**	With Stylus Support With Gloves Support
Resolution	1024x768	**Size**	12.1 inches
Contrast Ratio	1000:1	**Panel Brightness**	400 nits 800 nits(Optional)
View Angles	89,89,89,89		

System Specification

Processor	Intel Elkhart Lake x6425E Processor , 2.0 GHz	**Memory**	4GB SODIMM DDR4-3200 8GB SODIMM DDR4-3200 (Optional)
Storage	128GB M.2 SSD 256GB M.2 SSD (Optional)	**Security**	TPM 2.0
Operating System	Windows 10 IoT Enterprise	**WLAN**	Support
BT	Support	**WWAN**	4G/LTE (Optional)
GNSS	GPS/GLONASS (Optional)	**Sensors**	G-Sensor, Light Sensor ,Temp Sensor

Camera

Front Camera	2MP Camera

Environment

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
Vibration	MIL-STD-810H Method 514.8 Procedure I	**IP rating**	IP65 Certified, Waterproof and Dustproof
Impact	Support EN62262 IK07 Rating	**ESD**	Compliant with EN 61000-4-2, enhanced ESD to ±12kV direct & ±15kV air

Certification

Certification	CE, FCC, UL60950-1, EN60950-1, PTCRB, FCC (Electromagnetic Emissions), IC (ICES-003)

Control

Button	1 x Power Button, 5 x Function Button (Programmable Function Key Configured by Winset)

IO Ports

USB Port	1 x USB Type-C 1 x USB 2.0 Type-A	**Serial Port**	2 x RS232/422/485 (Default RS232)
SD Card Slot	1 x Micro SD Card Slot	**SIM Card Slot**	1 x Dual-Nano SIM Card Slot
LAN	1 x Gigabit LAN port	**Indicator**	4 x LED Indicator (WLAN, UPS battery, HDD, Heater)
DIDO	1 x DIDO (2XDI ; 2XDO) (Optional)	**CANBUS**	1 x CANBus (Optional)

Mechanical

Dimension	306.6 x 225 x 56.6 mm	**Weight**	2.4kg
Mounting	RAM Mount/ VESA Mount	**Cooling System**	Fanless Design

Security Function

SOTI MobiControl	SOTI MobiControl Compliance

Accessory

Accessory	5M Power Cable with Fuse Kit 0.15M Power Converter Cable DC Jack Power Cable 84W Adapter with power cable Quick Start Guide Stylus Kit + Screw	**Optional Accessory**	1.8M RS232 Cable 2M IP65 LAN Cable GPS & LTE 2M Combo Antenna(VM240) GPS & LTE 5M Combo Antenna (VM9C) GPS & LTE 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

Battery	400mAh UPS Battery for 20 minutes backup (Optional)	**Power Rating**	9V~36V with ignition control

DIMENSIONS   UNIT:MM

100
75

306.6

225

100
75

56.6

❶ Function Button
❷ LAN
❸ DB9 with COM or
   DB15 with COM+DIDO (Optional)
❹ USB Type-A
❺ Power Input

❻ DB9 with COM or
   DB15 with COM+CANBus (Optional)
❼ SD Card Slot
❽ SIM Card Slot
❾ USB Type-C
❿ Reserved Antenna

WINMATE

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. 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.