



FM12E-VML 12.1" Intel Atom(R) x6413E Vehicle Mounted Computer Defence Panel PC

Manufacturer part number: FM12E-VML | Defence Panel PCs



Explore Winmate FM12E-VML, a defense panel PC featuring 12.1-inch display with 1024x768 resolution, IP65 for defense operations and field command.

Display	
Size	12.1 inches
Resolution	1024x768
Type	Projected Capacitive Multi Touch
Panel Brightness	400 nits(Default), 800 (Optional)
Contrast Ratio	1000:1
View Angles	89,89,89,89
System Specification	
Processor	Intel Atom x6413E 1.5GHz (up to 3GHz) (Default), Intel Atom x6425E 2GHz (up to 3GHz) (Optional)
Memory	1 x SO-DIMM, DDR4 3200 MHz, 4GB (Default), 8GB (Optional), 16GB (Optional)
Storage	1 x M.2 2242 SSD 128GB (Default), 256GB (Optional), 512GB (Optional)
Security	TPM 2.0
Operating System	Windows 10 IoT Enterprise LTSC (64 bit) (Default), Windows 11 IoT Enterprise LTSC (64 bit) (Optional)
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 deg C to 60 deg C
Storage Temperature	-30 deg C to 60 deg C
Shock	USA: MIL-STD-810H Method 516.8 Procedure I, NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 402-Procedure I
Vibration	USA: MIL-STD-810H Method 514.8 Procedure I, NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 401-Procedure I

Drop	USA: MIL-STD-810H Method 516.8, 4 ft, NATO: STANAG 4370/AECTP400 Edition 3 Method AECTP 404 - Procedure II, 4 ft
IP rating	IP65
Impact	Support EN62262 IK07 Rating
EMC	USA:, MIL-STD-461G CE101, CE102, RE101, RE102, CS118 (Default), MIL-STD-461G CS101, CS114, CS115, CS116, RS101, RS103 (Optional), MIL-STD-461G RE102 Ground Army Grade, , NATO:, STANAG 4370/AECTP501 NCE01, NCE02, NRE01, NRE02, NCS12 (Optional), STANAG 4370/AECTP501 NCS01, NCS07, NCS08, NCS09, NRS01, NRS02 (Optional), STANAG 4370/AECTP501 NRE02-2 Land Environment (Optional)
TEMPEST	USA: NSA NSTISSAM TEMPEST/192 (Optional), NATO: SDIP27 (Optional)
Certification	
Certification	CE, FCC, FCC (Electromagnetic Emissions), IC (ICES-003), IEC/EN/UL 62368-1
Compliance	
MIL-STD 461G	RE101 / RE102, CE101 / CE102, with EMI Glass / Touch(Optional), RS101 / RS 103, CS101 / CS 114 / CS 115 / CS 116
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 (MIL-DTL-38999/3 connector)
Serial Port	2 x RS232/422/485 (Default RS232)
LAN	1 x Gigabit LAN port (MIL-DTL-38999/1 connector)
SD Card Slot	1 x Micro SD Card Slot
SIM Card Slot	1 x Dual-Nano SIM Card Slot
Indicator	4 x LED Indicator, (WLAN, UPS battery, HDD, Heater)
Mechanical	
Dimension	306.6 x 225 x 56.6 mm
Weight	2.4kg
Mounting	VESA mount
Cooling System	Fanless Design
Security Function	
SOTI MobiControl	SOTI MobiControl Compliance
Accessory	
Accessory	1 x Quick Start Guide, 1 x Power Cable (MIL-DTL-38999/3), 1 x USB Cable (MIL-DTL-38999/3), 1 x LAN Cable (MIL-DTL-38999/3), 1 x 84W Power Adapter , 1 x Power converter Cable
Optional Accessory	1.8M RS232 Cable, GPS & LTE 2M Combo Antenna(VM240), GPS & LTE 5M Combo Antenna (VM9C), GPS & LTE Combo Antenna (VM10S), WWAN Antenna, GPS Antenna
Power	
Battery	400mAh UPS Battery for 20 minutes backup (Optional)
Power Rating	10V~60V with ignition control (MIL-DTL-38999/1 connector)