

EPM-DK03 Expansion Module

Expansion peripheral modules (EPM) for the V2400 Series



Features and Benefits

- 2 mini PCIe slots for cellular & Wi-Fi expansion
- GPS receiver

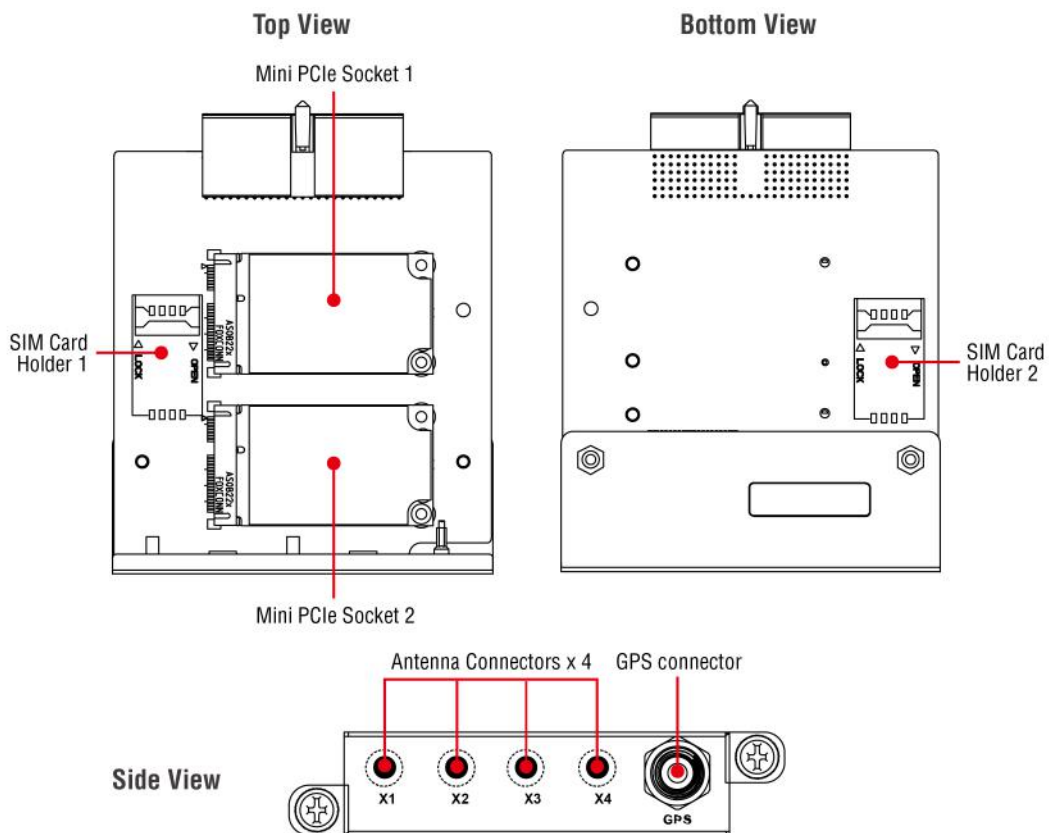
Certifications



Introduction

Moxa's EPM-DK03 expansion module comes with a GPS receiver and 2 mini PCIe slots for cellular and Wi-Fi modules, which can be used with Moxa's V2426 embedded computers to give end users the best flexibility for setting up and expanding a variety of industrial applications.

Appearance



Specifications

WLAN Module

Module	Slot 1: PCI-Express V1.0 (one lane), USB 2.0 Slot 2: USB 2.0
Module Antenna Connectors	Connectors x 4 (reserved)
No. of SIMs	2
SIM Format	Mini

GPS Interface

Receiver Types	50-channel u-blox 6 LEA-6 receiver GPS L1 C/A code GALILEO L1 open service (with upgrade) SBAS: WAAS, EGNOS, MSAS, GAGAN
Acquisition	Cold Starts: 28 sec Warm starts: 28 sec Aided starts: 1 sec Hot starts: 1 sec
Sensitivity	Tracking: -160 dBm Reacquisition: -160 dBm Cold Starts: -147 dBm
Timing Accuracy	RMS: 30 ns 99%: 60 ns Granularity: < 21 ns
Accuracy	Position: 2.5 m CEP SBAS: 2.0 m CEP
Protocols	NMEA, UBX binary, max. update rate: 5 Hz (ROM version)
Time Pulse	0.25 Hz to Hz to 1 kHz MHz
Velocity Accuracy	0.1 ms
Heading Accuracy	0.5 degrees
A-GPS	Supports AssistNow Online and AssistNow Offline, OMA SUPL compliant
Operational Limits	Velocity: 500 m/s (972 knots)

Physical Characteristics

Dimensions (without ears)	104 x 121 x 34 mm (4.09 x 4.76 x 1.34 in)
Weight	220 g (0.49 lb)

Environmental Limits

Operating Temperature	w/o wireless module: -40 to 70°C (-40 to 158°F) w/ wireless module: -25 to 55°C (-13 to 131°F)
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Ordering Information

Model Name	miniPCIe Expansion Slots	SIM Slots	RS-232/422/485 Ports	CAN Ports	Digital Input Channels	Digital Output Channels	Operating Temp.	Conformal Coating
EPM-DK03	2	1	-	-	-	-	-25 to 55°C	-

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