tangent

Rugged Mini Q4

Features

- 13th Generation Intel® Core™ i5 Processors
- Fanless Industrial Design
- Quad 4K Display Support
- Industrial Wide-Range DC Power Input (12-36V)
- Dual 2.5GbE High-Speed Networking
- Industrial Temperature Operation (-20°C to 60°C)
- DDR5 Memory Support up to 64GB
- Rich Industrial I/O with 4x COM Ports
- Flexible M.2 Expansion for Wireless & Storage Modules



Technical Specifications

System	
Processor	Intel® Core™ i5-1335U Processor
System Chipset	Raptor Lake-P
Graphics Controller	Intel® Iris® Xe Graphics
LAN Chipset	Intel I226V & I226-LM
Audio	Realtek ALC897
System Memory	Up to 64GB DDR5 4800MHz (2x SO-DIMM)
BIOS	UEFI
TPM	TPM 2.0
vPro	Intel vPro® Essentials
Watchdog	Software Programmable Supports 1~255 sec. System Reset
Storage	
SSD/HDD	1 x 2.5” SATA III 6Gb/s internal drive bay (Max. Height 9.5 mm)
M.2 NVMe	1 x M.2 (M-Key) supports M.2 2242/2280 NVMe SSD
Expansion	
SIM Socket	1x Nano SIM Card Slot (REQ. Cellular Module for Private Network Only)
M.2	1 x M.2 (E-Key) supports M.2 2230 for Wi-Fi/Bluetooth module 1 x M.2 (B-Key) supports M.2 2242/2280 4G LTE/5G cellular module 1 x M.2 (B+M-Key) supports M.2 2242 SATA SSD
Other Features	
Cooling Method	Fanless
I/O	
Video	2x HDMI 2.0b 2x DP1.4a
COM	4x DB9 RS232 Serial Ports

USB	4x USB 2.0 Type A 4x USB 3.2 Type A 1x USB 3.2 Type C
LAN	2x RJ45 2.5GbE LAN Ports
WLAN	Wi-Fi 6 + BT 5.3
Audio	1 x Audio (Line-out/MIC Combo)
Others	1x Power Button 1x Reset Button 4x SMA Antenna Hole 1x Ground Screw 1x GPIO (Optional)
Operating System	
Windows	Windows® 11
Power	
Power Input Voltage	12 ~ 36 VDC
Power Connector	Barrel Connector (5.5mm x 2.5mm)
Power Protection	Yes
Power Adapter	External AC/DC Power Adapter: 19V, 4.74A
Environment	
Operating Temp.	-4°F - 140°F (-20°C - 60°C)
Storage Temp.	-40°F - 185°F (-40°C - 85°C)
Relative Humidity	95% 40°C, non-condensing
Certification	CE/FCC Class A, LVD
Physical	
Enclosure Materials	Aluminum
Dimension (W x H x D)	7.28" × 5.59" × 2.40" (185mm x 142mm x 61mm)
Weight	Unit Weight: 4.85lbs (2.2kg) Shipping Weight: 7.72lbs (3.5kg)
Mounting	Wall Mount & DIN Rail

Front



Rear

