

M900

Mini Rugged Computer with Intel® Celeron® J6413 Processor, 2x DP, 2x COM, 1x 2.5" SATA HDD Bay

Features

- Intel® Celeron® Processor J6413, Quad Core, 1.5 MB Cache, 1.8 GHz
- 16GB DDR4 Memory
- 3x Display Port
- 240 GB SATA SSD
- 1x 2.5GbE, 1x GbE supporting (Wake-on-LAN and PXE)
- 1x M.2 (B Key, 2242/3042/3052, Support 4G/5G)
- 1x Full-size mini PCIe for communication or expansion modules
- 2x RS-232/422/485, 3x USB 3.2 Gen2, 1x USB 2.0
- DIO (4 in / 4 out isolated)
- 9 to 36VDC Wide Range Power Input Supporting AT/ATX Mode
- Wide Operating Temperature -40°C to 70°C
- TPM 2.0 Supported
- Wifi / Bluetooth Optional
- Windows 10 IoT Enterprise
- UL Listed

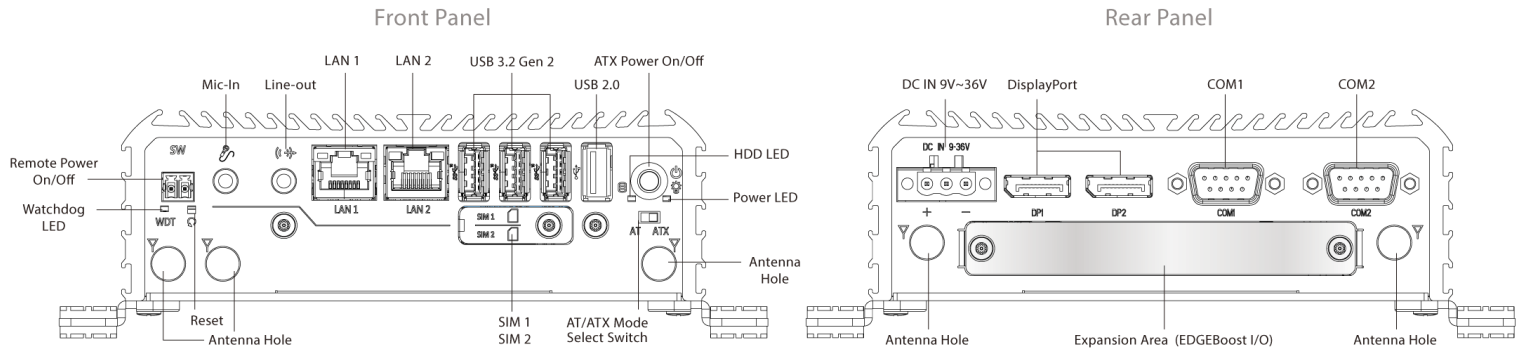


Specifications

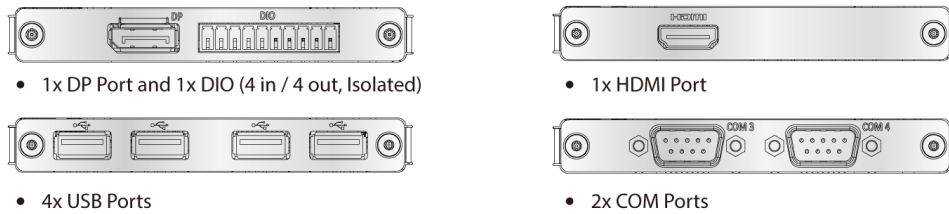
System		Certification	UL 62368 Ed. 3, CE, FCC Class A
Processor	Support Intel® EHL Processor (Up to 10W TDP) -Intel® Celeron® Processor J6413, Quad Core, 1.5 MB Cache, 1.8 GHz	Vibration	With SSD: 5 Grms, 5 - 500 Hz, 0.5 hr/axis With HDD: 1 Grms, 5 - 500 Hz, 0.5 hr/axis
System Chipset	SoC integrated	Shock	With SSD: 50G, half sine, 11ms
LAN Chipset	1 GbE1: Intel I210 (Support Wake-on-LAN and PXE) 2.5 GbE2: Intel I225 (Support Wake-on-LAN and PXE)	Physical	
Audio Codec	Realtek ALC888S	Dimensions	150 (W) x 105 (D) x 49 (H) mm
System Memory	1x 260-Pin DDR4 2400/2667/3200MT/s SODIMM. Max. up to 32 GB	Weights	0.9 kg
Graphics	Intel® UHD Graphics	Construction	Extruded Aluminum with Heavy Duty Metal
BIOS	AMI 256Mbit SPI BIOS	Mounting Options	Wall Mounting SIDE / VESA / DIN-Rail Mounting (Optional)
Watchdog	Software Programmable Supports 1~255 sec. System Reset		
TPM	TPM 2.0		
Display			
Display Port	3x DisplayPort 1.4, DP++ (4096 x 2160@60Hz)		
Multiple Display	Triple Display		
Storage			
M.2	1x M.2 (B Key, 2242/3042/3052, PCIe x1 + USB 3.2 Gen2, Support 4G/5G Module)		
mSATA	1x mSATA (shared by 1x Mini PCI Express)		
SIM Socket	2x External SIM socket		
SSD/HDD	1x Internal 2.5" SATA HDD Bay (support H=9.5 mm)		
Expansion			
Mini PCIe	1x Full-size Mini PCIe		
I/O			
Audio	1x Mic-in, 1x Line-out		
CAN	2x CAN 2.0 A/B 2-pin Internal header		
COM	2x RS-232/422/485		
DIO	4 in / 4 out isolated		
LAN	2x RJ45 (2.5 & 1 GbE)		
USB	3x USB 3.2 Gen 2 (10 Gbps) 1x USB 2.0		
Others	5x WiFi Antenna Holes 1x Power Switch, 1x AT/ATX Switch, 1x Remote Power On/Off 1x Internal CMOS Battery Cable 1x 4-PIN FAN Connector		
Operating System			
Windows	Windows 10 IoT Enterprise		
Power			
Power Adapter	Optional AC/DC 12V/5A, 60W		
Power Mode	AT, ATX		
Power Ignition Sensing	Adjustable power ignition management can be achieved through BIOS and optional daughter board.		
Power Supply Voltage	9~36VDC		
Power Connector	3-pin Terminal Block		
Power Protection	OVP (Over Voltage Protection) OCP (Over Current Protection) Reverse Protection		
Environment			
Operating Temperature	-40°C to 70°C		
Storage Temperature	-40°C to 85°C		
Relative Humidity	10% to 95% (non-condensing)		

• For configured to run at 10W, operating temperatures will be limited to 70°C.
• 10W CPUs may experience thermal throttling depending on extreme application workloads; this is also due to an increase in the physical CPU cores from the Intel silicon (up to 4 cores). Please note, this does not indicate system malfunction or problems in the fanless design. Please consult our embedded engineers for the best configuration to match your application requirements.
• All specifications and photos are subject to change without notice.

External I/O Mechanical Layout



Available Expansion Module Options for Rear Panel



Dimension

Unit: mm

