INDUSTRIAL NETWORKING SOLUTIONS

Reliable Connections, Ready for Tomorrow

PCIe Low Profile | M.2 LAN Card | Mini-PCIe | M.2 Wi-Fi
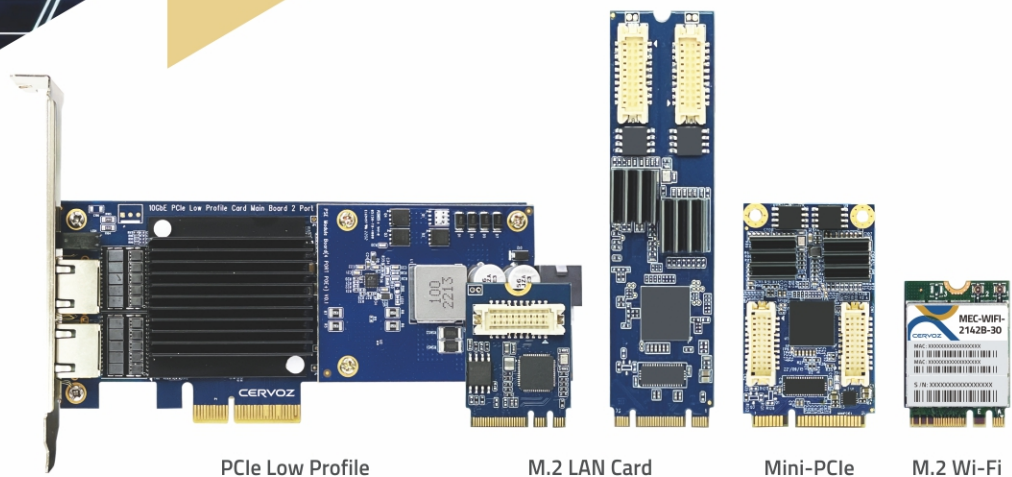
Wired and Wireless Solutions to Power Your Business Upgrade

Upgrade your network with Cervoz's future-proof solutions. Our Ethernet and Wi-Fi 6E expansion cards deliver reliable wired and flexible wireless connectivity. Designed for industrial needs, these compact, durable solutions ensure seamless, cost-effective growth for your business.
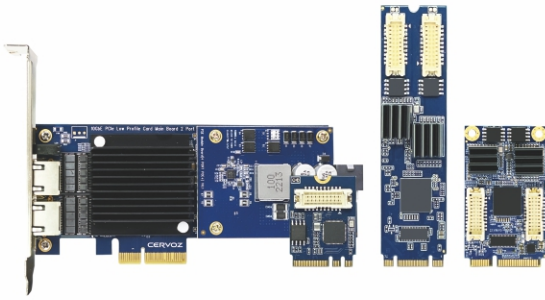
Wired Networking Solutions

Ethernet Cards

- Speeds: 1/2.5/10 GbE
- Port Options: 1/2/4 Ports
- Space-Saving Design: Low-Profile Option
- Form Factors: Mini PCIe, PCIe, M.2 2230/42/60/80
- Interface (Connector): RJ45, M12 X-code, SFP
- Add-On PoE+ Power Module

Wireless Networking Solutions

Wi-Fi Cards

- Standards: Wi-Fi 5, Wi-Fi 6, Wi-Fi 6E
- Frequency Bands: 2.4GHz, 5GHz, and 6GHz (Wi-Fi 6E)
- Form Factors: Mini PCIe and M.2 2230(A+E key)
- Integrated Bluetooth: Version 4.0, 5.0, and 5.2
- MIMO Technology: 2T2R

Multiple Form Factors

Cervoz's Ethernet Expansion Solutions have multiple form factors, including Mini PCIe, standard and low-profile PCIe, and M.2 2230/42/60/80 form factors that are ideal for slim or compact PC installation.
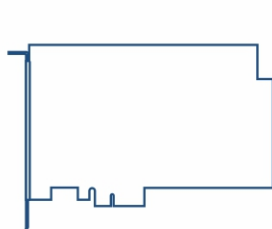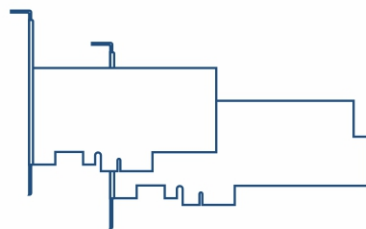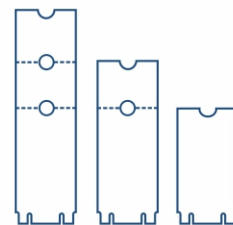

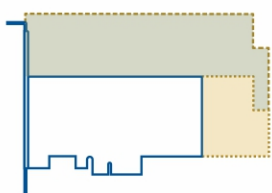| Standard PCIe | Compact/Standard Low Profile PCIe | Mini PCIe | M.2 2280/60/42 | M.2 2230 |

Space-Saving Design

Space Saving Comparison

Measuring even smaller than a typical low profile expansion card.

M.2 2230/42/60 LAN Cards are more space-efficient compared to M.2 2280.

Compact Low Profile: Saving 55.0%

Standard Low Profile: Saving 37.9%

Saving 62.5%   Saving 47.5%   Saving 25.0%

| Compact/ Standard Low Profile | Full Size | | 2230 | 2242 | 2260 | 2280 |

Key Advantage Points

3-in-1 M.2 Design
Easily expand

Isolated Ports
2kV surge protection

PoE+ Capability
Higher power delivery

Critical Operating
- 40°C ~ 85°C

Ethernet Expansion Solutions

Model Name	MEC-LAN-M101i MEC-LAN-M102i	MEC-LAN-2001i MEC-LAN-2002i	MEC-LAN-M601i MEC-LAN-M602i	MEC-LAN-2601i MEC-LAN-2602i	MEC-LAN-2631i
Form Factor	Mini PCIe	M.2 2242/2260/2280	Mini PCIe	M.2 2280	M.2 2230 (A+E key)
Controller	I210-AT/IT		I226-IT		
Connector	RJ45				
Dimensions(mm)	30.00 x 50.95	22.00 x 42.00/60.00/80.00	30.00 x 50.95	22.00 x 80.00	22.00 x 30.00
Port numbers	1 I 2 port				1 port
Data Rate Per Port	1GbE		2.5GbE		
Special Feature	2kV surge				
Operating Temp.	0°C~70°C / -40°C~85°C		-40°C~85°C		

Product specifications are subject to change without prior notice.

Model Name	MEC-LAN-2001-SFP MEC-LAN-2002-SFP	MEC-LAN-P004	MEC-LAN-P014	MEC-LAN-PL104 MEC-LAN-PL604	MEC-LAN-PL502
Form Factor	M.2 2280	PCIe Gen2 x 4		Low Profile PCIe Gen2 x 4/ Gen3 x 4	
Controller	I226-IS	I210-AT		I210-AT I I226-IT	X550-AT2
Connector	SFP	RJ45	M12 X-code	RJ45	
Dimensions(mm)	22.00 x 80.00	111.00 x 167.65		68.90 x 121.50	68.90 x 167.65
Port Numbers	1 I 2 port	2 / 4 port	4 ports	4 ports	2 ports
Data Rate Per Port	1GbE			1 I 2.5GbE	10GbE
Special Feature	–	PoE+ / 2kV surge		–	PoE+ / 2kV surge
Operating Temp.	-40°C~85°C	0°C~ 70°C		0°C~ 70°C I -40°C~85°C	0°C~ 55°C

Product specifications are subject to change without prior notice.

Wi-Fi Expansion Solutions

Model Name	MEC-WIFI-M432B-H	MEC-WIFI-2632B-30	MEC-WIFI-2042B-30 MEC-WIFI-2042B-30W	MEC-WIFI-2142B-30
Generation	Wi-Fi 5		Wi-Fi 6	Wi-Fi 6E
Form Factor	Mini PCIe	M.2 2230 (A+E key)		
IEEE Networking Standard	802.11 a/b/g/n/ac + Bluetooth 4.0	802.11 a/b/g/n/ac + Bluetooth 5.0	802.11 a/b/g/n/ac/ax + Bluetooth 5.2	
RF Frequency Range	2.4~2.5GHz	2.4~2.5GHz	2.402~2.484GHz	2.402~2.484GHz
	5.725~5.785GHz	5.15~5.85GHz	5.15~5.85GHz	4.905-5.915GHz
	ISM Dual Band	ISM Dual Band	ISM Dual Band	5.930-7.110GHz
MIMO Technology	2T2R			
Operating Temperature	0°C~70°C		0°C~70°C I -40°C~85°C	0°C~70°C

Product specifications are subject to change without prior notice.

About Cervoz

Cervoz develops, produces and markets industrial storage and memory products for the professional, critical, and diverse industrial applications.

Established in 2006, Cervoz specializes in embedded components for the demanding Industrial PC market and has built up our industry experience for over a decade. We deeply understand this industry, and thus are able to offer our high quality embedded products with legacy and mainstream technology, long-term availability, BOM (bill of material) control, high reliability and top compatibility.

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