

High-Performance Frame Grabber Cards

for Vision Applications



Precision in Motion: Elevate Your Vision Applications

Neousys frame grabber cards support high-definition resolution and rapid frame rates for high-speed vision applications. Offering excellent operating compatibility and reliability, they are available in 1G, 2.5G, 5G, and 10G variants while supporting GigE, 5GigE, 10GigE, and USB3 cameras. With independent controllers for smooth data transfer, PoE+ support, and rugged RJ45 and M12 connectors, these cards excel in machine vision and surveillance, delivering precision and speed in demanding industrial environments.













PoE+ support M12 connectors













High Bandwidth Support

- · Available in 1G. 2.5G. 5G. and 10G variants
- · Support high-resolution and high-speed cameras





Robust Connector

- Industrial RJ45 connectors ensure flexible and efficient connectivity in conventional setups
- Rugged M12 X-coded connectors provide robust stability for high-demand environments



Add-on Connectivity







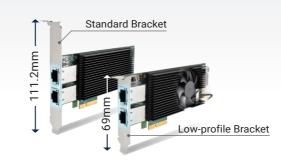
Low Latency & High Throughput

- · Independent controller ensure maximum per-port performance
- · Sustaining data transfer even with multiple devices connected



Seamless Integration and Innovative Design

- · Low-profile PCIe x4 slots for flexibility in compact systems
- · Ensure reliable and continuous operation with original platform



· Leverage PCIe slots to effortlessly expand system

· Designed to fit diverse systems, ensuring reliable

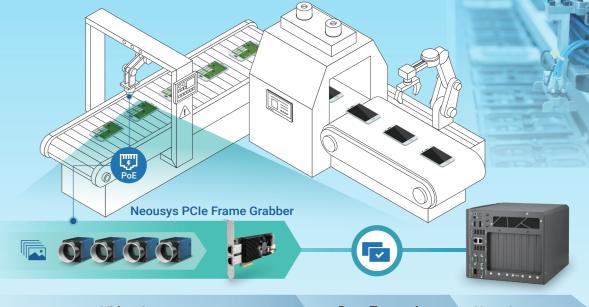
performance for industrial and specialized environments

connectivity and enhance functionality

Product Portfolio



Embedded Solutions for Enhanced Compatibility



Video Capture

Related Expansion Box PCs













Fanless Industrial PC with Patented

Cassette for PCI/ PCIe Expansion



Nuvo-2822 Intel® Alder Lake N Compact Expansion Box-PC with 2x PCIe and 2x PCI Slots

PoE+ Capability

- · Feature programmable API software for power on/off control
- · Powers devices via Ethernet, eliminating the need for separate power supplies

Data Transmit Host Computer

Specification Table













	RJ-45							
Model Name	PCIe-PoE572bt	PCIe-N572	PCIe-PoE550X	PCIe-10G550X	PCIe-PoE454at	PCIe-N452		
Dimensions (W x H)	Low-Profile bracke Standard-Height brac		168mm x 111mm					
Bus Interface	x4, Gen3 PCI Express							
Number of Ports	2x 10GbE ports by B	roadcom BCM57416	2x 10GbE ports by Intel® X550-AT2		4x 5GbE ports by four Marvell AQC111C	2x 5GbE ports by four Marvell AQC111C		
Ethernet Bandwidth		100	ibps		5Gbps			
PoE Capability	Yes (up to 90W per PoE++ port, total 180W)	-	Yes (up to 25.5W per port, total 51W)	-	Yes (up to 25.5W per port, total 100W)	-		
EMC*	CE/FCC Class B, accord		CE/FCC Class A, according to EN 55032 & EN 55035					
Operating Temperature	-25°C to 70°C with air flow		0°C to 60°C with air flow		0°C to 55°C with airflow			













		RJ	M12	USB				
Model Name	PCIe-PoE425bt	PCIe-PoE334LP	PCIe-PoE354at	PCIe-PoE352at	PCIe-PoE312M	PCIe-USB381F		
Dimensions (W x H)	168mm x 111mm	168 mm x 69 mm		117.7 mm x 111.2 mm				
Bus Interface								
Number of Ports	4x 2.5GbE ports by Intel [®] I226-IT	4x GbE ports by Intel® I350-AM4	4x GbE ports by Intel [®] I350-AM4	2x GbE ports by Intel [®] I350-AM2	4x GbE ports by Intel [®] I350-AM4	8x USB 3.1 Gen1 ports		
Bandwidth	2.5Gbps		5Gbps					
PoE Capability	Yes (up to 90W per PoE++ port, total 144W)	Yes (up to 25.5W of power per port, total 74W)	Yes (up to 25.5W of power per port, total 66W)	Yes (up to 25.5W of power per port, total 51W)	Yes (up to 25.5W of power per port, total 66W)	-		
USB3 Host Controller			-		-	4x Fresco FL1100SX host controllers, compliant with Intel® xHCI Specification Revision 1.0		
Per-Port Current Limit			-		-	User-configurable 900mA/ 1800mA per-port current limit		
EMC*	CE/FCC Class A, according to EN 55032 & EN 55035							
Operating Temperature	0°C to 50°C with airflow (802.3bt mode) 0°C to 55°C with airflow	(802.3bt mode) 0°C to 55°C with air flow						



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