ADLINK
LEADING EDGE COMPUTING

Industrial Monitors, Panel PCs, and GPU Innovation



Visualize Actionable Intelligence at the Edge

Product Catalogue

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

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About ADLINK

Leading EDGE COMPUTING

ADLINK Technology is leading edge computing with products and platforms that enable computing at the edge of the network, whether that network be the public Internet or an enterprise information technology (IT)/operational technology (OT) network. With the main goal of driving data-to-decisions, ADLINK provides solutions to connect the unconnected and simplify the design, development and deployment of Industrial Internet of Things (IIoT) applications.

Through the integration of computing power, rugged design, high availability and industrial I/O, ADLINK has made a name for itself providing reliable products of superior quality for cost-effective solutions. This allows our customers around the world to significantly reduce time-to-market (TTM) burdens while minimizing total cost-of-ownership (TCO) with customization and system integration advantages, keeping manufacturing costs low and extending product lifecycles.

ADLINK is a Titanium tier members of Intel® Partner Alliance and is active in several standards organizations and interoperability initiatives, including PCI Industrial Computer Manufacturers Group (PICMG), PXI Systems Alliance (PXISA), VMEbus International Trade Association (VITA), Standardization Group for Embedded Technologies (SGeT), European Telecommunications Standards Institute (ETSI), and Open Compute Project (OCP).

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In 2018, ADLINK officially partners with NVIDIA to deliver 'AI at the Edge' solutions. Stressing ADLINK's extensive and market-proven expertise in supplying embedded and connected platforms for industrial markets such as gaming, manufacturing, telecom, defense, transportation and healthcare, this collaboration combines the strengths and core competencies of both companies in a highly synergistic way. The combination of advanced technologies provides customers with opportunities to deploy leading-edge solutions in support of operational excellence and new business models.

ADLINK is a global company with a local touch. Headquartered in Taiwan, ADLINK offers manufacturing in Taiwan and China; R&D and integration in the US, Germany, Taiwan and China; an extensive network of worldwide sales and support offices; and a continually expanding partner ecosystem. ADLINK is ISO-27001, ISO-9001, ISO-14001, ISO-13485, ISO/IEC-17025, ISO/IEC-80079-34, ISO-45001, ISO-26262, TL9000, and RBA certified and is publicly traded on the TAIEX Taiwan Stock Exchange (stock code: 6166). Our products are currently available in over 40 countries across five continents, supported by worldwide distribution networks and offices and over 1800 employees.



GPU Solutions

Industrial Display Solutions

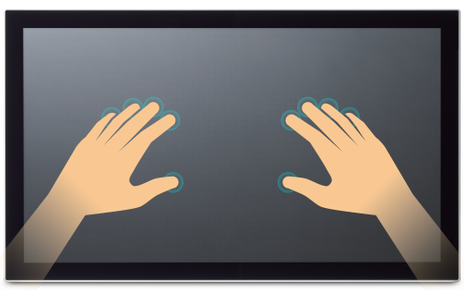
Visit ADLINK website to get up to date specification.

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Industrial Touch Monitors

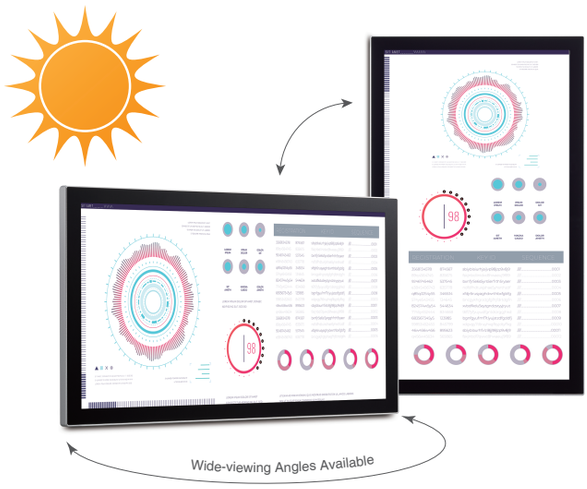
With the latest touchscreen technology, our industrial monitors are designed to streamline and automate daily operations, enhancing operational efficiency. These monitors provide smooth user interaction, an unbeatable visual experience, and durability that meet various industrial applications' demands. ADLINK's open-frame and true-flat industrial touch monitors offer superior quality, making them ideal Human Machine Interface (HMI) applications in industries like manufacturing, public transport, hospitality, and retail where smooth user interaction is essential.

Highlighted Features



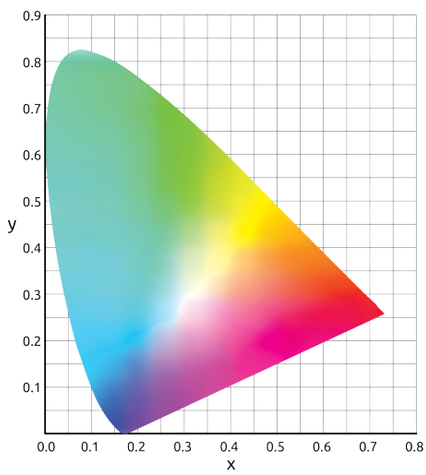
Immersive Visuals

Easily adjust gamma correction, color saturation, brightness, contrast, and color balance with software programmable color management to reveal the true colors of stunning visuals.



Smooth User Interaction

ADLINK's projected capacitive technology supports 10-point multi-touch capabilities for smooth zoom, flick, rotate, swipe, drag, pinch, press, double tap, and other functions.



High Readability

ADLINK's industrial touch screen monitors are optimized for outdoor or semi-outdoor use thanks to their high brightness and sunlight readability features. The screen surface is treated with an anti-fingerprint solution to facilitate cleaning and maximize readability, and with wide-viewing angles available, these monitors support both portrait and landscape orientations.

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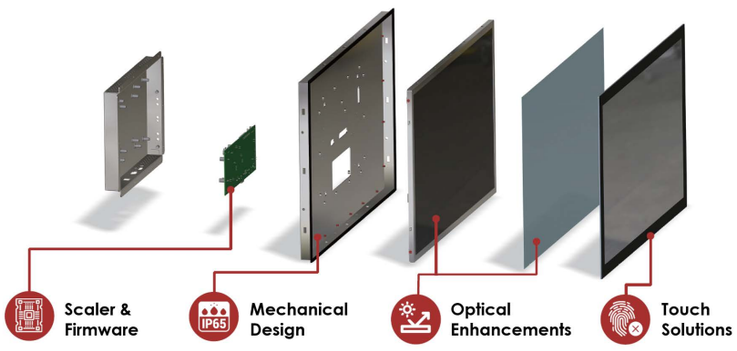


AUO Display+

- IP65 Front Panel
- 7H Hardness
- MTBF UP to 50,000 hrs.

High Durability

We team up with AUO® to ensure delivering the products with solid-build quality, which is protected with 7H hardness and an IP65 front panel. ADLINK's industrial monitors can easily withstand in the hazards of harsh environments, such as water, dust ingress, scratches, abrasions, and metallic dust. On average, these monitors have a mean time before failure (MTBF) of up to 50,000 hours, minimizing maintenance costs.



Flexible Value-Added Customization

ADLINK, as the industrial monitors and panel PCs solution provider, also offers one-stop value-added customization from scaler & firmware, mechanical design, and optical enhancements to all touch solutions to meet project requirements.

Product Series



Fullscreen: 7"- 19"



Widescreen: 10.1"- 43"

OM Series

Seamless System Integration
Open-frame industrial touch monitors



Widescreen: 21.5"- 27"

IM Series

Plug-in & Ready to Display Anywhere
True-flat, stand alone industrial touch monitors

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Open Frame (OM Series)
Fullscreen Models

AUO Display+





Model	OM-070	OM-121	OM-150	OM-170	OM-190
Display					
Size	7"	12.1"	15"	17"	19"
Resolution (Max.)	800 x 480	1024 x 768 (XGA)		1280 x 1024	
Aspect Ratio	5:3	4:3	4:3	5:4	5:4
Color	16.7M				
Brightness (Nits)	400 nits			300 nits	
Backlight Life (Hrs)	50,000				
Viewing Angle (U/D/R/L)	89/89/89/89	80/80/70/70	80/80/70/80	80/80/85/85	
Contrast Ratio	1300:1	700:1	800:1	1000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating				
Bonding	Air Bonding				
I/O					
USB Port	USB type B (for touch)				
Video	HDMI x1, VGAx1				
Audio	w/o Audio				
Environmental					
Operating Temperature	-20°C to 70°C		0°C to 60°C	0°C to 50°C	-20°C to 70°C
Storage Temperature	-20°C to 70°C		-10°C to 60°C	-20°C to 60°C	-20°C to 70°C
Humidity	10% to 80% @ 40°C (non-condensing)				
Surface Hardness	7H				
Vibration	Operating: 1G random 5 to 500Hz				
Shock	Operating: 20G acceleration part to part, 11ms				
IP Rating	Front IP65				
Power Input	DC-12V 5A Max.				
Power Consumption	3.7W	7.4W	8.1W	16W	
Mechanical					
Net Weight/ Gross Weight	0.9 kg/ 1.4 kg	2.02 kg/ 2.52 kg	2.8 kg/ 3.3 kg	3.5 kg/ 4.0 kg	4.2 kg/ 4.7 kg
Packing Dimensions (W x L x D mm)	375 x 180 x 243	415 x 180 x 383	465 x 180 x 418	555 x 180 x 508	
Mounting	Panel mount only	VESA Mount (MIS-D 75mm x 75mm,100mm x 100mm) Panel, and Wall mount			

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Open Frame (OM Series)
Widescreen Models

AUO Display+





Model	OM-101	OM-156	OM-185	OM-215 OM-215H	OM-238	OM-270
Display						
Size	10.1"	15.6"	18.5"	21.5"	23.8"	27"
Resolution (Max.)	1280 x 800	1920 x 1080				
Aspect Ratio	16:9					
Color	16.7M					
Brightness (w/ touch)	400 nits			400 nits / 1200 nits (215H)	200 nits	240 nits
Backlight Life (Hrs)	50,000			30,000 / 50,000 (215H)		40,000
Viewing Angle (U/D/R/L)	89/89/89/89				85/85/85/85	
Contrast Ratio	800:1	1000:1 / 3000:1 (215H)			3000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating					
Bonding	Air bonding					
I/O						
USB Port	USB type B (for touch)					
Video	HDMI x1, VGA x1					
Audio	w/o Audio					
Environmental						
Operating Temperature	-20°C to 70°C		0°C to 70°C	-20°C to 60°C -20°C to 70°C (215H)	0°C to 50°C	
Storage Temperature	-20°C to 70°C			-20°C to 60°C / -20°C to 70°C (215H)		
Humidity	10% to 80% @ 40°C (non-condensing)					
Surface Hardness	7H					
Vibration	Operating: 1G random 5 to 500Hz					
Shock	Operating: 20G acceleration part to part, 11ms					
IP Rating	Front IP65					
Power Input	DC-12V 5A Max.					
Power Consumption	5.7 W	13.9 W	20 W	25.4 W / 41.2 W (215H)	17.5 W	21.5 W
Mechanical						
Net Weight/ Gross Weight	1.6 kg / 2.1 kg	2.9 kg/ 3.6 kg	4.2 kg / 5.2 kg	4.8 kg / 6.0 kg (5.1 kg / 6.3 kg)	6.2kg / 7.5kg	7.5kg / 8.0kg
Packing Dimensions (W x L x D mm)	330 x 320 x 180	490 x 380 x 190	430 x 610 x 160	640 x 480 x 160	695 x 488 x 175	775 x 538 x 180
Mounting	VESA Mount (MIS-D 75mm x 75mm,100mm x 100mm) Panel, and Wall mount					

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Open Frame (OM Series)
Widescreen Models

AUO Display+





Model	OM-320	OM-430
Display		
Size	32"	43"
Resolution (Max.)	1920 x 1080	
Aspect Ratio	16:9	
Color	16.7M	
Brightness (w/ touch)	400 nits	
Backlight Life (Hrs)	50,000	
Viewing Angle (U/D/R/L)	89/89/89/89	
Contrast Ratio	4000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating	
Bonding	Air bonding	
I/O		
USB Port	USB type B (for touch)	
Video	HDMI x1, VGA x1, DVI x1, DP 1.2 x1	
Audio	w/o Audio	
Environmental		
Operating Temperature	0°C to 40°C	
Storage Temperature	-20°C to 60°C	
Humidity	10% to 90% (non-condensing)	
Surface Hardness	≥6H	
Vibration	Operating: 1.5G random 10 to 200Hz	
Shock	NA	
IP Rating	Front IP65	
Power Input	DC-24V 5A Max.	
Power Consumption	38.4 W	50.4 W
Mechanical		
Net Weight/ Gross Weight	14.2 kg / 15.1 kg	26.5 kg / 26.85 kg
Packing Dimensions (W x L x D mm)	630 x 920 x 160 mm	800 x 1200 x 220 mm
Mounting	VESA Mount 200 x 200 mm (M6), M4 Rear mount x 12	VESA Mount 200 x 200 mm (M6), M4 Rear mount x 8

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True Flat (IM Series)

AUO Display+





Model	IM-215 / IM-215H	IM-238	IM-270
Display			
Size	21.5"	23.8"	27"
Resolution	1920 x 1080		
Aspect Ratio	16:9		
Color	16.7M		
Brightness (w/ touch)	400 nits (215) / 1200 nits (215H)	200 nits	240 nits
Backlight Life (Hrs)	30,000		40,000
Viewing Angle (U/D/R/L)	89/89/89/89	85/85/85/85	
Contrast Ratio	1000:1	3000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating		
Bonding	Air bonding		
I/O			
USB Port	USB type B(for touch)		
Video	HDMI x1, VGA x 1		
Audio	w/o Audio		
Environmental			
Operating Temperature	0°C to 60°C	0°C to 50°C	
Storage Temperature	-20°C to 60°C		
Humidity	10% to 80% @ 40°C (non-condensing)		
Surface Hardness	7H		
Vibration	Operating: 1G random 5 to 500Hz		
Shock	Operating: 20G acceleration part to part, 11ms		
IP Rating	Front IP65		
Certifications & Compliance	215: CE/FCC/BSMI, 215H: CE/FCC	CE/FCC	
Power Input	DC-12V 5A Max.		
Power Consumption	25.4 W	18W	24W
Mechanical			
Net Weight/ Gross Wegith	5.0 kgs / 6.2 kgs	6.85 kgs / 7.45 kgs	8.26 kgs / 8.86 kgs
Packing Dimensions (H x W x D)	640 x 480 x 160	695 x 488 x 175	775 x 538 x 180
Mounting	VESA Mount, MIS-D 75mm x 75mm, 100mm x 100mm (Standard)		

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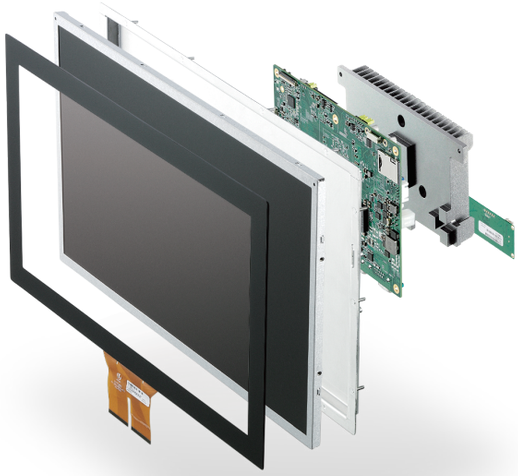
Open Frame Panel PCs – SP2 Series

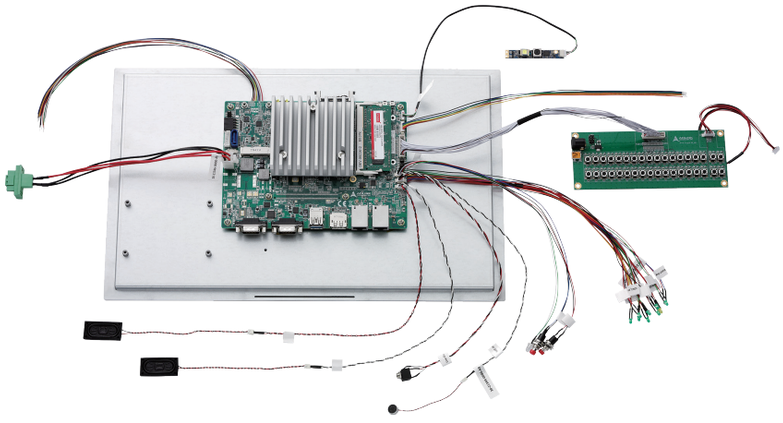
With flexible configuration with a high level of modularization, ADLINK SP2 Series help system integrators, integrated solution providers, and brand vendors deliver cutting-edge functions unique to individual applications. Leveraging ADLINK's unique Function Module (FM) design, these panels accelerate prototyping according to the requirements of the application while saving time, money, and effort. ADLINK's Smart Panels are an ideal fit for transportation, retail, hospitality, industrial automation, healthcare, gaming, and other industries.

Highlighted Features

Flexible configuration with advanced modularization

ADLINK's Open Frame Panel PCs can be easily tailored to application needs through customization of the computing performance, touch panel type, display size, and I/O interface. The SP2's function modules support application-specific functions, and this modular architecture fast-tracks development, verification, and validation, resulting in significant savings in time, money, and resources.





Panel-focused design and mainboard

Specifically, the panel-design-use mainboard helps fast HMI-related development with its connectivity and I/O expansions. We offer two different embedded structures by the applications. Firstly, the general open frame (7"-21.5") uses an x86-based solution with a function module for various I/O expansions according to needs. Another is an open frame panel PC (7", 10"), with mental brackets, powered by an ARM processor offers cost advantages, consumes considerably less power, and efficiently manages heat dissipation.

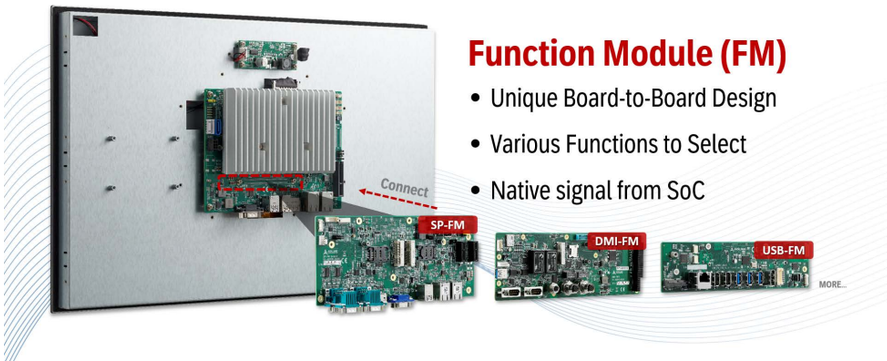


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Endless possibilities with unique function modules

With function modules, ADLINK's SP2 series can be configured with custom functions and interfaces to seamlessly meet the needs of any vertical application. Connected by a board-to-board connector, function modules offer guaranteed compatibility with ADLINK Open Frame Panels, which decreases R&D overhead and costs.



Function Module (FM)

- Unique Board-to-Board Design
- Various Functions to Select
- Native signal from SoC

Long-term reliability and durability

ADLINK's SP2 series are robust for use in harsh operating environments. The wide temperature and power input ranges allow the computers to withstand poorly ventilated conditions, transient power spikes, and voltage fluctuations, while the IP65-rated front panel can deter water and dust ingress. Designed with long-term usability in mind, these open-frame panel PCs offer clients peace of mind, alleviating worries related to system reliability after deployment or long-term supply availability.

Product Series

SP2-TGL

Powered by 11th generation Intel® Core™ processor

SP2-KL

Powered by 7th generation Intel® Core™ processor



SP2-EHL

High power efficiency with Intel Atom® x6000E series, USB x7, USB type-C, and PoE support



SP2-AL

Powered by Intel Atom® E3900 series processor



SP2-IMX8

All-new NXP i.MX8M Plus high performance processor with I/O expansion-able from edge I/O

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Mainboard > **Function Module** > **Panel Size and Chassis**

SBC - SP2 series

Offers a wide range of computing levels including Intel® Core™, Atom® processors.

SP2-TGL



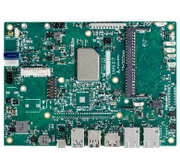
11th Gen. Intel® Core™ and Celeron® Processors

SP2-KL



7th Gen. Intel® Core™

SP2-EHL



Intel Antom® x6000E series

SP2-AL



Intel Antom® E3900 series

Function Module

Provides superior I/O interface expansion by unique modular board-to-board design ensuring quick upgrade (optional).

SP-FM



USB 3.0 x2, USB 2.0 x3
LAN x2, Full COM x2
RS232 x2, SIM slot x2
PCIe Gen2x1 slot x2
mPCIe slot x2, GPIO x2
I2C wafer, HDMI or VGA

USB-FM



Multiple USB peripherals
USB 3.0 x4 (Type C x1)
USB 2.0 x4, LAN, DP
M.2 2242, RS485 (ISO)
Full COM x2

Titan-FM

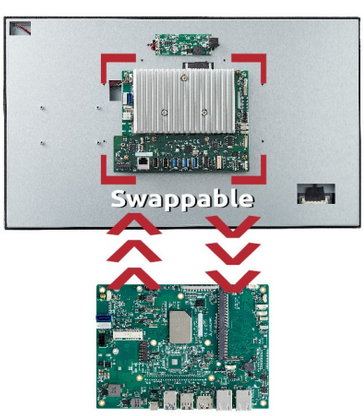


Pipe mount design
Vertical I/O ports
USB 3.0, USB 2.0, DP
LAN x2, RS232 x2

Finalizing

Open-frame, All-in-One, and IP69K enclosures are available to meet environmental requirements ideally.

Open Frame





* Please refer to the following specifications for more information.

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Open Frame Panel PC (SP2-TGL Series)





Model	SP2-10WP-TGL	SP2-15WP-TGL	SP2-21WP-TGL
System			
Processor	11th Gen Intel® Core™ and Celeron® Processors - Mobile 10nm++ process(formerly “Tiger Lake UP3”) Intel® Core™ i7-1185G7E, 2.8(4.4)GHz, 12MB, 15-28W (4C/Iris Xe) Intel® Core™ i5-1145G7E, 2.6 (4.1)GHz, 8MB, 15-28W (4C/Iris Xe) Intel® Core™ i3-1115G4E, 3.0(3.9)GHz 6MB, 15-28W (2C/UHD) Intel® Celeron® 6305E, 1.8 GHz, 4MB, 15W (2C/UHD) Intel® Core™ i7-1185GRE, 2.8 (4.4) GHz, 12MB, 15-28W (4C/Iris Xe) Intel® Core™ i5-1145GRE, 2.6 (4.1) GHz, 8MB, 15-28W (4C/Iris Xe) Intel® Core™ i3-1115GRE, 3.0 (3.9) GHz, 6MB, 15-28W (2C/UHD)		
Memory	2x SODIMM non-ECC 2400/3200 MHz DDR4 memory up to 64GB		
Storage	1x M.2 SATA 6 Gbps port, M key 2280 and 1x 2.5” SSD/HDD SATA 6 Gbps port (Optional)		
Display and Touch			
Size	10.1"	15.6”	21.5”
Resolution (Max.)	1280 x 800	1920 x 1080	
Contrast Ratio	800:1	1000:1	
Brightness (Nits)	400 cd/m2 (typ)	420 cd/m2 (typ)	400 cd/m2 (typ)
Backlight Life (Hrs)	50,000		
Viewing Angle (U/D/R/L)	89/89/89/89		
Touch screen	10 points		
Surface Hardness	7H		
Surface Treatment	Anti-Fingerprint		
External I/O			
Ethernet	2x GbE (Intel® I225), RJ-45, WOL, Up to 2.5 Gb/s		
Serial Port	1x RS-232/422/485 programmable, auto flow		
USB Port	1x USB 2.0, Type A, OCP, 1000mA 1x USB 3.2, 5 Gbps, Type A, OCP, 1600mA 2 x USB 3.2, gen 2, 10 Gbps, Type A, OCP, 1600mA		
Display Port	1x DP, DP++, supports resolutions up to 5120x3200@60Hz 1x MiniDP, DP++, supports resolutions up to 5120x3200@60Hz		
Internal I/O with Wire to Board Connectors			
USB Port	1x USB 2.0 client		
I^2C	2x for I^2C client		
Audio	1x for 2x stereo speaker (2 watt) 1x Mic-in and Line-out 1x buzzer		
Keys	1x for 32 physical keys (BOM optional), 1x supports LCD backlight up/down and volume up/down (BOM optional)		
COM Port	1x RS-232/422/485 programmable, auto flow		
GPIO	1x supports 8-pin GPI/O		
PCIe Slot	1x PCIe Gen 4 x4 (Optional)		
M.2	1x A/E key 2230 (Wi-Fi/BT) 1x B key 3042 (4G/5G)		
SIM	1x SIM slot for 4G/5G communication		
Power with Wire to Board Connector			
Power Input	AT/ATX (Default: AT mode) 12V ±5% / 9-36V, both with OVP/UVP protection		
Power Connector	1x 6-pin power connector		
Power/Fail Reset	1x wafer, support system reset & power button and power LED		
Backup Battery	1x wafer for UPS kit to backup data when AC shuts down (Optional)		
Environmental			
Operating Temperature	0°C to 60°C (Default), -20°C to 60°C (By Request)		0°C to 60°C
Storage Temperature	-20°C to 70°C		-20°C to 60°C
Humidity	10% to 95%		
Vibration	OP 1 Grms, 5-500Hz w/ SSD, (IEC60068-2-64) X, Y, Z axes, 60 min/axis		
Shock	OP 20G peak acceleration, 11 ms (IEC60068-2-64)±X, ±Y, ±Z, 3 shocks/asix		
IP Rating	IP65 for front		
ESD	Air: ±15kV, Contact: ±8kV		
EMC/Safety Compliance	EMI: IEC/EN 61000-3-2, IEC/EN 61000-3-3, EN 61000-6-4, EN 55032 EMS: EN 55035, EN 61000-6-2 EMC: CE, FCC Class B, IEC 60601-1-2:2014/EN60601-1-2:2015, UNECE R10, EN 50121-3-2 Safety: Compliant with 60601-1/61010-1/62368-1 *SP2-TGL has passed pre-compliance testing of EMI, EMS, EMC, and Safety.		
Software			
WDT	Watch Dog Timer supported		
Operating System	Windows® 10 IoT Enterprise x64 bit, Linux Ubuntu 22.04		
Mechanical			
Construction	SGCC		
Dimensions (W x L x D mm)	249.66 x 168.3 x 64.4 ± 2	383.15 x 232.79 x 65.1 ± 2	517.46 x 309.19 x 67.6 ± 2
Weight	2.06 ± 0.2kg	3.02 ± 0.2kg	4.85 ± 0.2kg
Mounting Kit (optional accessories)	1) Panel mounting 2) VESA mounting, support by a rear cover		

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Open Frame Panel PC (SP2-KL Series)





Model	SP2-10WP-KL	SP2-15WP-KL	SP2-21WP-KL
System			
Processor	Intel® Core™ i7-7600U 2.8/3.9 GHz (Turbo) 15W Intel® Core™ i5-7300U 2.6/3.5 GHz (Turbo) 15W Intel® Core™ i3-7100U 2.4 GHz (Turbo) 15W		
Memory	1x SODIMM socket, DDR3L 1600MHz (Up to 8GB)		
Storage	1x M.2 SATA 6 Gbps port, M key 2280 and 1x 2.5" SSD/HDD SATA 6 Gbps port		
Display and Touch	(Optional)		
Size	10.1"	15.6"	21.5"
Resolution (Max.)	1280 x 800	1920 x 1080	1920 x 1080
Contrast Ratio	800:1	1000:1	1000:1
Brightness (Nits)	400 cd/m2 (typ)	420 cd/m2 (typ)	400 cd/m2 (typ)
Backlight Life (Hrs)	50,000		
Viewing Angle (U/D/R/L)	89/89/89/89		
Touch Point	10 points		
Touch Structure	Glass/Glass		
Surface Hardness	7H		
Surface Treatment	Anti-Fingerprint		
External I/O			
Ethernet	2x GbE (Intel® I225), RJ-45, WOL, Up to 2.5 Gb/s		
Serial Port	2x RS-232/422/485 programmable, auto flow		
USB Port	1x USB 2.0, Type A, OCP 1x USB 3.0, Type A, OCP		
Display Port	1x DP, DP++, supports resolutions up to 4096x2304@60Hz 1x MiniDP, DP++, supports resolutions up to 4096x2304@60Hz		
Internal I/O with Wire to Board Connectors			
USB Port	2x USB 2.0 client		
I^2C	2x for I^2C client		
Audio	1x for 2x stereo speaker (2 watt) 1x Mic-in and Line-out 1x buzzer		
Keys	1x for 32 physical keys (BOM optional), 1x supports LCD backlight up/down and volume up/down (BOM optional)		
COM Port	2x RS-232/422/485 programmable, auto flow		
GPIO	1x supports 8-pin GPI/O		
PCIe Slot	1x PCIe Gen3 x4 (Optional)		
mPCIe	1x mPCIe slot (Wi-Fi/BT/4G)		
SIM	1x SIM slot for 4G/5G communication		
Power with Wire to Board Connectors			
Power Input	AT/ATX (default: AT mode) 12V ±5% / 9-36V, both with OVP/UVP protection		
Power Connector	1x 4-pin power connector		
Power/Fail Reset	1x wafer, support system reset & power button and power LED		
Backup Battery	1x wafer for UPS kit to backup data when AC shuts down (Optional)		
Environmental			
Operating Temperature	-20°C to 60°C		0°C to 60°C
Storage Temperature	-20°C to 70°C		-20°C to 60°C
Humidity	10% to 95%		
Vibration	OP 1 Grms, 5-500Hz w/ SSD, (IEC60068-2-64), X, Y, Z axes, 60 min/axis		
Shock	OP 20G peak acceleration, 11 ms (IEC60068-2-64), ±X, ±Y, ±Z, 3 shocks/asix		
IP Rating	IP65 for front		
ESD	Air: ±15kV, Contact: ±8kV		
EMC/Safety Compliance	EMI: IEC/EN 61000-3-2, IEC/EN 61000-3-3, EN 61000-6-4, EN 55032 EMS: EN 55035, EN 61000-6-2, EMC: CE, FCC Class B, IEC 60601-1-2:2014/EN60601-1-2:2015, UNECE R10, EN 50121-3-2 Safety: Compliant with 60601-1/61010-1/62368-1 *SP-KL has passed pre-compliance testing of EMI, EMS, EMC, and Safety.		
Software			
SEMA	SEMA 4.0		
WDT	Watch Dog Timer supported		
Operating System	Windows® 10 IoT Enterprise x64 bit Linux Ubuntu 20.04 LTS		
Mechanical			
Construction	SGCC		
Dimensions (W x L x D mm)	249.66 x 168.3 x 64.4 ± 2	383.15 x 232.79 x 65.1 ± 2	517.46 x 309.19 x 67.6 ± 2
Weight	2.06 ± 0.2kg	3.02 ± 0.2kg	4.85 ± 0.2kg
Mounting kit (optional accessories)	1) Panel Mounting 2) VESA mounting, support by a rear cover		

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Open Frame Panel PC (SP2-EHL Series)





Model	SP2-07WP-EHL	SP2-10WP-EHL	SP2-15WP-EHL	SP2-21WP-EHL
System				
Processor	Intel Atom® x6425E, 2.0(3.0) GHz, 12W, 4C/32EU Intel Atom® x6413E, 1.5(3.0) GHz, 9W, 4C/16EU Intel Atom® x6211E, 1.2(3.0) GHz, 6W, 2C/16EU Intel Atom® J6412, 2.0(2.6) GHz, 10W, 4C/16EU			
Memory	1x SODIMM socket, DDR4 3200MHz (Up to 32GB)			
Storage	1x M.2 SATA M key 2280, support SATA SSD and NVME (PCIe x2) 1x 2.5" SSD/HDD SATA 6 Gbps port			
TPM	1x TPM 2.0 (optional)			
Display and Touch				
Size	7"	10.1"	15.6"	21.5"
Resolution (Max.)	1024 x 600	1280 x 800	1920 x 1080	1920 x 1080
Contrast Ratio	600:1	800:1	1000:1	1000:1
Brightness (cd/m², typ)	600 cd/m2 (typ)	400 cd/m2 (typ)	420 cd/m2 (typ)	400 cd/m2 (typ)
Backlight Life (Hrs)	50,000			
Viewing Angle (U/D/R/L)	85/85/85/85	89/89/89/89		
Touch Points	5 points	10 points		
Touchscreen type	Capacitive touch screen (standard), Glass/Glass Resistive Touch Screen (Optional)			
Surface Hardness	7H			
Surface Treatment	Clear	Anti-Fingerprint		
External I/O				
Ethernet	2x GbE (Intel® I226), RJ-45, WOL (Default 1Gbps, optional: 2.5Gbps)			
Power Over Ethernet	Supports 60W PoE (PD) with external module (optional)			
USB Ports	2x USB 3.2, Gen 1 (5 Gbps), OCP, Type A 2x USB 2.0, OCP, Type A 1x USB 3.2 Gen 1, Type C (optional)			
Display Port	1x DisplayPort, DisplayPort++, supports resolutions up to 4096x2160@60Hz 1x USB Type C, supports resolutions up to 4096x2160@60Hz (optional)			
Internal I/O with Wire to Board Connectors				
USB Ports	2x USB 2.0 client, wafer			
COM Ports	2x RS-232/422/485 programmable, auto flow (wire to connectors) Default: COM 1, COM 2: BOM optional			
I^2C connectors	2x for I2C client, wafer			
Audio (Optional)	1x Stereo speaker (2 watt) 1x Mic-in/line-out 1x buzzer			
Keys	1x for 32 GPIO or physical key (Optional), 1x Supports LCD backlight up/down and volume up/down (BOM optional)			
GPIO	1x 8-pin GPI/O			
Power/Reset	1x Power (with LED) 1x Reset button			
LED	Supports 10 LEDs			
mPCIe	1x full size mPCIe slot			
M.2 2230 slot	1x M.2 2230 E key for wireless (Wi-Fi/Bluetooth)			
Power with Wire to Board Connectors				
Power Input	AT/ATX (default: AT mode), 12V ±5% / 9-36V, both with OVP/UVP protection			
Power Connector	1x 6-pin power connector			
Backup Battery	1x Wafer for UPS kit to backup data when AC shuts down (optional)			

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Open Frame Panel PC (SP2-AL Series)

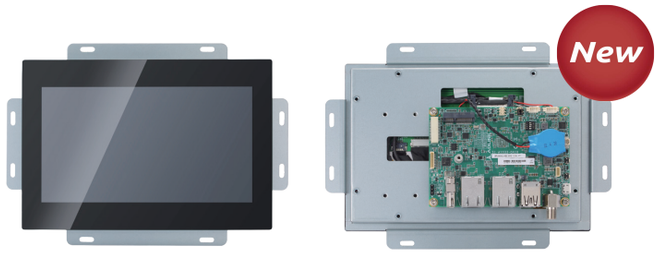




Model	SP2-07WP-AL	SP2-10WP-AL	SP2-15WP-AL	SP2-21WP-AL
System				
Processor	Intel Atom® x7-E3950 1.6/2.0GHz (Turbo), 12W (4C/1866) Intel Atom® x5-E3930 1.3/1.8GHz (Turbo), 6W (2C/1866)			
Memory	1x SODIMM socket, DDR3L 1600MHz (Up to 8GB)			
Storage	1x M.2 SATA 6 Gbps port, M key 2280 and 1x 2.5" SSD/HDD SATA 6 Gbps port (Optional)			
Display and Touch				
Size	7"	10.1"	15.6"	21.5"
Resolution (Max.)	1024 x 600	1280 x 800	1920 x 1080	1920 x 1080
Contrast Ratio	600:1	800:1	1000:1	1000:1
Brightness (Nits)	600 cd/m2 (typ)	400 cd/m2 (typ)	420 cd/m2 (typ)	400 cd/m2 (typ)
Backlight Life (Hrs)	50,000			
Viewing Angle (U/D/R/L)	85/85/85/85	89/89/89/89		
Touch Point	5 points	10 points		
Touch Structure	Glass/Glass			
Surface Hardness	7H			
Surface Treatment	Clear	Anti-Fingerprint		
External I/O				
Ethernet	2x GbE (Intel® I225), RJ-45, WOL, 1 Gb/s			
Serial Port	2x RS-232/422/485 programmable, auto flow			
USB Port	1x USB 2.0, Type A, OCP, 1000mA 1x USB 3.0, Type A, OCP, 1600mA			
Display Port	1x DP, DP++, supports resolutions up to 4096x2160@60Hz			
Internal I/O with Wire to Board Connectors				
USB Port	1x USB 2.0 client			
I^2C	2x for I^2C client			
Audio	1x for 2x stereo speaker (2 watt) 1x Mic-in and Line-out			
Keys	1x for 32 physical keys (BOM optional), 1x supports LCD backlight up/down and volume up/down (BOM optional)			
GPIO	1x supports 8-pin GPI/O			
mPCIe	1x mPCIe slot (Wi-Fi/BT/4G)			
SIM	1x SIM slot for 4G/5G communication			
Power with Wire to Board Connectors				
Power Input	AT/ATX (default: AT mode) 12V ±5% / 9-36V, both with OVP/UVP protection			
Power Connector	1x 4-pin power connector			
Power/Fail Reset	1x wafer, support system reset & power button and power LED			
Backup Battery	1x wafer for UPS kit to backup data when AC shuts down (Optional)			
Environmental				
Operating Temperature	-20°C to 60°C	-20°C to 60°C		0°C to 60°C
Storage Temperature	-20°C to 70°C			-20°C to 60°C
Humidity	10% to 95%			
Vibration	OP 1 Grms, 5-500Hz w/ SSD, (IEC60068-2-64), X, Y, Z axes, 60 min/axis			
Shock	OP 20G peak acceleration, 11 ms (IEC60068-2-64), ±X, ±Y, ±Z, 3 shocks/asix			
IP Rating	IP65 for front			
ESD	Air: ±15kV, Contact: ±8kV			
EMC/Safety Compliance	EMI: IEC/EN 61000-3-2, IEC/EN 61000-3-3, EN 61000-6-4, EN 55032 EMS: EN 55035, EN 61000-6-2, EMC: CE, FCC Class B, IEC 60601-1-2:2014/EN60601-1-2:2015, UNECE R10, EN 50121-3-2 Safety: Compliant with 60601-1/61010-1/62368-1 *SP2-AL has passed pre-compliance testing of EMI, EMS, EMC, and Safety.			
Software				
SEMA	SEMA 4.0			
WDT	Watchdog Timer supported			
Operating System	Windows® 10 IoT Enterprise x64 bit Linux Ubuntu 20.04 LTS			
Mechanical				
Construction	SGCC			
Dimensions (W x L x D mm)	216 x 160 x 54.54 ± 2	249.66 x 168.3 x 64.4 ± 2	383.56 x 232.99 x 65.1 ± 2	517.46 x 309.19 x 67.6 ± 2
Weight	2.06 ± 0.2kg		3.02 ± 0.2kg	4.85 ± 0.2kg
Mounting Kit (optional accessories)	1) Panel mounting 2) VESA mounting, support by a rear cover			

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Open Frame Panel PC (SP2-IMX8 Series)



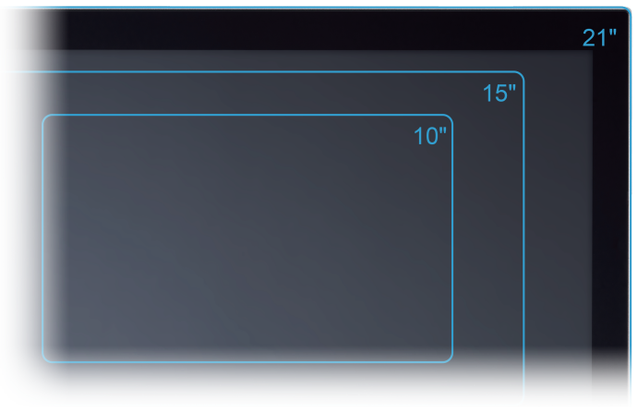
Model	SP2-07WP-IMX8	SP2-10WP-IMX8
System		
Size	7”	10.1”
Processor	NXP i.MX 8M Plus, ARM A53, 64-Bit, 1.8GHz, 4 Core / NXP i.MX 8M Plus, ARM A53, 64-Bit, 1.6GHz, 4 Core	
Memory	2 GB (Default) / 4 GB & 8 GB (Optional)	
Storage	32GB eMMC 5.1	
Display and Touch		
Size	7”	10.1”
Resolution	1024 x 600	1280 x 800
Contrast Ratio	800:1	800:1
Brightness	425 cd/m2 (typ)	300 cd/m2 (typ)
Backlight Life (Hrs)	70,000	50,000
Viewing Angle (U/D/R/L)	85/85/85/85	
Touchpoint	5 points	
Touch structure	Glass/Glass	
Surface Hardness	7H	
Surface Treatment	AG	
External I/O		
Ethernet	1x GbE port, RJ45 connector, 1G TSN, support wake on LAN, default 1x GbE port, RJ45 connector, support wake on LAN, optional	
USB Port	1x USB 3.2 Gen1 (5Gbps), Type A (default) or 1x USB 3.2 Gen1 (5Gbps) and 1x USB 2.0, Type A (Optional) 1x USB 2.0 Micro B OTG (default)	
DisplayPort	1x HDMI 2.0a, up to 3840x2160p30 for display, 1920x1080p60 for Video	
Buttons	1x Reset button, 1x Function/Recovery button, 1x wafer to support power button	
Internal I/O with Wire-to-Board Connectors		
Serial Port	1x RS485, with auto flow control (default) 1x RS-232/422/485 programmable, auto flow (Optional)	
I2C	2x for I2C client, wafer	
Audio (optional)	1x for 2x stereo speaker (2 watts), 1x Mic-in (Mono) and Line-out (Stereo), 1x buzzer	
CAN	1x CAN Bus, wafer	
M.2	1x 2230 A/E key for WiFi/Bluetooth	
Expansion IO (Optional)	1x USB 3.2 Gen1 (5Gbps), 1x I2C, 1x SPI, 4GPI&4GPO	
Power		
Power Input	12V (default) or 12-24V (optional)	
Power Connector	1x 2.5 Φ DC Jack (default) or 4-pin power connector (optional)	
Backup Battery	1x RTC battery	
Environmental		
Operating Temperature	0°C ~ 60°C / -20°C ~ 60°C	0°C ~ 60°C / -20°C ~ 60°C
Storage Temperature	-20°C ~ 70°C	-20°C ~ 70°C
Humidity	40°C, 95%	
Vibration	OP 1 Grms, 5-500Hz (Refer to IEC60068-2-64) X, Y, Z axes, 60 min/axis	
Shock	OP 20G peak acceleration (Half-Sine), Pulse Duration: 11ms (Refer to IEC60068-2-27), ±X, ±Y, ±Z, 3 shocks/axes	
ESD	Air: ±15kV, Contact: ±8kV	
EMC/Safety Compliance	CE/FCC class B EN 55032:2015 + A11:2020; EN 55035:2017 + A11:2020 BS EN 55032:2015 + A11:2020; BS EN 55035:2017 + A11:2020 AS/NZS CISPR 32:2015 + A1:2020 EN 60601-1-2:2015 + A1:2021; IEC 60601-1-2:2014 + A1:2020 BS EN 60601-1-2:2015 + A1:2021 ; EN IEC 61000-3-2:2019+A1:2021 BS EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021 BS EN 61000-3-3:2013+A1:2019+A2:2021 EN IEC 61000-6-4:2019 ; EN IEC 61000-6-2:2019 ; BS EN IEC 61000-6-4:2019 BS EN IEC 61000-6-2:2019 ; EN 50121-3-2:2016+A1:2019 ; BS EN 50121-3-2:2016+A1:2019 EN 55011:2016+A11:2020 (Group1, class B) BS EN 55011:2016+A11:2020 IEC/EN 60601-1 ; IEC/EN 62368-1 2nd	
Software		
Operating System	Yocto Kirkstone LTS (5.15) (default), Android 13 (optional), Windows 10 (by demand)	
Mechanical		
Construction	SGCC	
Dimension (H x W x D)	184 x 154 mm	257.6 x 202.2 mm
Weight (without rear cover)	860g ± 25g	950g ± 28g
Mounting kit (optional accessories)	1) Panel Mounting 2) Rear cover 3) VESA bracket	

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All-in-One Panel PCs – STC2 Series

ADLINK's Smart Touch Computer (STC2 series) is ideal for human–machine interface (HMI) applications in the food and beverage, pulp and paper, textile, printing, word processing, and other industries. These panel PCs are designed for optimized production control and monitoring, offering scalable performance, customizability, and I/O expansion. With an industrial-grade, robust construction, these touch panel PCs are designed for long-time operation, allowing manufacturers to effortlessly obtain time-sensitive sensor data and easily monitor and control manufacturing processes.

Highlighted Features



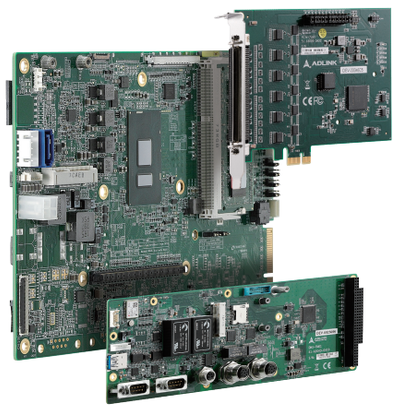
Endless possibilities with deep customization

The STC2 panel PCs can be tailored to meet the unique needs of individual vertical applications through custom functions and interfaces.



Flexible configuration with advanced modularization

Manufacturers can easily customize the STC2 series panel PCs for application-specific I/O and functionality, changing the level of computing performance, touch panel type, display size, and I/O interface. This customization accelerates development, verification, and validation, leading to saved time, money, and resources for any manufacturer.



Long-term durability and reliability

ADLINK's Standalone Panel PC (STC2 series) delivers a high ROI with its long-life support and outstanding reliability. Even in harsh environments with extreme temperatures or power input ranges, the STC2 series thrives thanks to their built-in overvoltage and undervoltage protection and their IP65-rated front panel.

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Narrow bezel and slim design

The slim, lightweight frame allows for effortless integration and installation into any application, improving cost efficiency while looking stylish.



Various mounting options

With support for VESA mounting and desk stands, ADLINK's STC2 panel PCs offer an abundance of mounting options. They can even be embedded into control consoles for ultimate convenience.

Product Series



STC2-KL

Industrial panel PCs powered by 7th generation Intel® Core™ processor



STC2-AL

Industrial panel PCs powered by Intel Atom® processor E3950 series

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All-in-One Panel PC (STC2-KL Series)









Model	STC2-10WP-KL	STC2-15WP-KL	STC2-21WP-KL
System			
Processor	7th Gen Intel® Core™ Processor		
Memory	4GB DDR3L default (up to 8GB)		
Storage	64GB SSD default (up to 1TB)		
Display			
Size	10.1"	15.6"	21.5"
Resolution (Max.)	1280 x 800	1920 x 1080	
Aspect Ratio	16:9		
Brightness	400 nits (w/i touch)		
Backlight Life (Hrs)	50,000		
Viewing Angle (U/D/R/L)	89/89/89/89		
Contrast Ratio	800:1	1000:1	
Touchscreen	10-point, PCAP, Anti-fingerprint coating		
I/O			
Ethernet	2x GbE LAN, RJ-45		
Serial Port	2x COM ports, RS-232/422/485		
USB Port	1x USB 2.0, Type A 1x USB 3.0, Type A		
Expansion	1x Mini PCIe card with PCIe and USB interface		
Wi-Fi and Bluetooth	802.11 a/b/g/n/ac and Bluetooth 4.0 (Optional with Mini PCIe card)		
4G/LTE	For USA/Europe/TW/NZ/AU regions (Optional)		
Video	1x DP Port		
Audio	1x audio port (line out)		
Environmental			
Operating Temperature	-10°C to 50°C (SSD)		
Storage Temperature	-20°C to 60°C		
Humidity	10% to 80% @ 40°C (non-condensing)		
Vibration	Operating: 1G random 5 to 500Hz		
Shock	Operating: 20G/11ms		
IP Rating	Front IP65		
Certifications & Compliance	CE/FCC		
Power Input	9-36V DC input OVP/UVP protection		
Power Consumption	40.9W	50.4W	64.1W
Software			
WDT	Watch Dog Timer supported		
Operating System	Windows® 10 IoT Enterprise		
Weight	2.05 kg	3.4 kg	6.2 kg
Dimensions (W x L x D mm)	256 x 174 x 44	390 x 239 x 47	524 x 316 x 51
Mounting	VESA Mount, MIS-D 75mm x 75mm, 100mm x 100mm		

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All-in-One Panel PC (STC2-AL Series)





Model	STC2-10WP-AL	STC2-15WP-AL
System		
Processor	Intel Atom® x7-E3950 Processor	
Memory	4GB DDR3L default (up to 8GB)	
Storage	64GB SSD default (up to 1TB)	
Display		
Size	10.1"	15.6"
Resolution (Max.)	1280 x 800	1920 x 1080
Aspect Ratio	16:9	
Brightness	400 nits (w/i touch)	
Backlight Life (Hrs)	50,000	
Viewing Angle (U/D/R/L)	89/89/89/89	
Contrast Ratio	800:1	1000:1
Touchscreen	10-point, PCAP, Anti-fingerprint coating	
I/O		
Ethernet	2x GbE LAN, RJ45	
Serial Port	2x COM ports, RS-232/422/485	
USB Port	1x USB 2.0, Type A 1x USB 3.0, Type A	
Expansion	1x Mini PCIe card with PCIe and USB interface	
Wi-Fi and Bluetooth	802.11 a/b/g/n/ac and Bluetooth 4.0 (Optional with Mini PCIe card)	
4G/LTE	For USA/Europe/TW/NZ/AU regions (Optional)	
Video	1x DP Port	
Audio	1x audio port (line out)	
Environmental		
Operating Temperature	-10°C to 50°C (SSD)	
Storage Temperature	-20°C to 60°C	
Humidity	10% to 80% @ 40°C (non-condensing)	
Vibration	Operating: 1G random 5 to 500Hz	
Shock	Operating: 20G/11ms	
IP Rating	Front IP65	
Certifications & Compliance	CE/FCC	
Power Input	9-36V DC input	
Power Consumption	29.4W	39.8W
Software		
WDT	Watch Dog Timer supported	
Operating System	Windows® 10 IoT Enterprise	
Weight	1.9 kg	3.16 kg
Dimensions (W x L x D mm)	256 x 174 x 44	390 x 239 x 47
Mounting	VESA Mount, MIS-D 75mm x 75mm, 100mm x 100mm	

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IP69K Stainless Steel Panel PC - Titan2 Series

The state-of-the-art Titan2 Series is designed for the toughest industrial environments. It boasts an IP69K rating, offering unparalleled protection against dust and high-pressure water jets. Ideal for industries, such as the food and beverage, pharmaceutical, and chemical industries, which require solid built quality and stable system operation with rigorous hygiene standards for ongoing production. This innovation promises a new era of durability and performance.

Highlighted Features



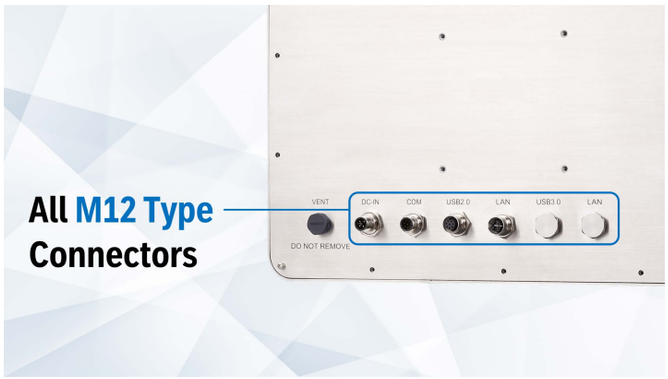
Rugged Design

ADLINK's IP69K Stainless Industrial Panel PC, which has superior protection against water and dust with 24V DC power input and wide operating temperature that is ideal for harsh environments.

Easy for Cleaning

The Titan2 Series is designed with a true flat panel with corrosion-resistant 304 stainless steel enclosure (316 for option) that allows easy maintenance by high pressure, hot water, and alcohol wipes to secure hygiene standard in the applied fields.





Seamless Connection

Our latest stainless industrial panel PC is all equipped with entire M12 type connectors to straightforwardly installable and clearly coded to reduce the chance of accidences as the perfect fit in IIoT applications.

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Superior Visibility

ADLINK offers value-added service to tailor the panel PC to meet various environmental requirements. For example, optical bonding can minimize the total reflection for the screen, and high brightness enhancement (up to 1,000 nits) allows clear display under the sunlight or even in a dark place.



Solid HMI Solution

The Titan2 fulfills data visualization at the edge, which can optimize production process by AI-driven analysis. It is the perfect fit into the food and beverage, pharmaceutical, and chemical industry, which requires solid built quality and stable system operation for ongoing production.

Product Series



Titan2

Rugged IP69K Industrial Panel PCs with 11th Gen Intel® Core™ Processor

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Focus Vertical Markets



Automated Industrial Mining



Food & Beverage Automation



Pharmaceutical



Chemical



Born for Intelligent Rugged Applications

Incorporating an authentic flat design on both its front and rear surfaces, this full IP69K panel PC stands as a pinnacle of uncompromised cleanliness, aligning seamlessly with stringent hygiene standards. Boasting advanced functionalities including RFID for secure access authorization, a camera for precise identity recognition, glove-use touch capability, and a user-friendly physical power button, the Titan2 Series provides a cutting-edge interface designed for efficiency. Its robust construction is finely tuned with a broad operating system temperature range, guaranteeing optimal performance across a spectrum of challenging conditions.



Power Button



10-Point PCAP Touch



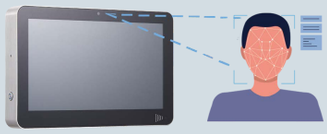
Wide Operating Temperature



Total True Flat



RFID Support (optional)



Front Camera (optional)

IP69K Stainless Steel Panel PC (Titan2 Series)







Model	Titan2-15WP-VESA	Titan2-21WP-VESA	Titan2-24WP-VESA
System Core			
Processor	Intel® Core™ i5-1145G7E 1.5GHz 15W (4 Cores) Intel® Core™ i3-1115G4E 2.2GHz 15W (2 Cores)		
Memory	DDR4 up to 32 GB		
I/O Interface			
USB	1x M12 for 2x USB 2.0 (A-coded) with waterproof cover		
Ethernet	1x M12 for 2.5GbE LAN (X-coded)with waterproof cover		
Serial Ports	1x M12 for RS-232/422/485 (default RS-232, A-coded) with waterproof cover		
Power Input	1x M12 for DC power (T-coded)		
Expansion Slot	1x M.2 E-key 2230 (PCIe+USB2.0) for optional WIFI/BT 1x M.2 B-key 3042 (USB2.0+USB3.2 Gen1) for optional LTE/5G		
Storage	1x M-key 2280 (SATA-III) for SSD		
Optional	2 x optional blank M12 connectors with waterproof covers for selecting from the following options: 1 x USB 3.2 Gen.1 1 x 2.5GbE LAN Optional integrate RFID/Camera at front bezel		
Mechanical			
Size	15.6"	21.5"	23.8"
Dimensions (W x L x D mm)	387 x 252.7 .36 x 55	521.4 x 329.19 x 55	584.94 x 364.36 x 55
Weight	7 kg	10 kg	13 kg
Mounting	VESA 100x100/200 x 100(23.8") mm Mounting, Yoke/Pipe mount options		
DC Input	24V DC		
Environmental			
Operating Temperature	STD : -10~50°C	STD: 0~50°C High Brightness LCD Model: 0~40°C	STD: 0~40°C
Storage Temperature	-20°C to 60°C (excluding storage)		
Humidity	~95% @ 40°C (104°F) (non-condensing)		
Vibration	Operating : 10 ~ 500 Hz, 1.87G for X, Y, Z (IEC 60068-2-64)		
Shock	Operating: 30 G, half sine 11ms duration (w/ SSD) for 15.6" and 21.5" Operating: 20 G, half sine 11ms duration (w/ SSD) for 23.8"		
Drop	Refer to ISTA 1A		
EMC	EN61000-6-4/-2, CE, FCC Class B		
Safety	UL/cUL, CB		

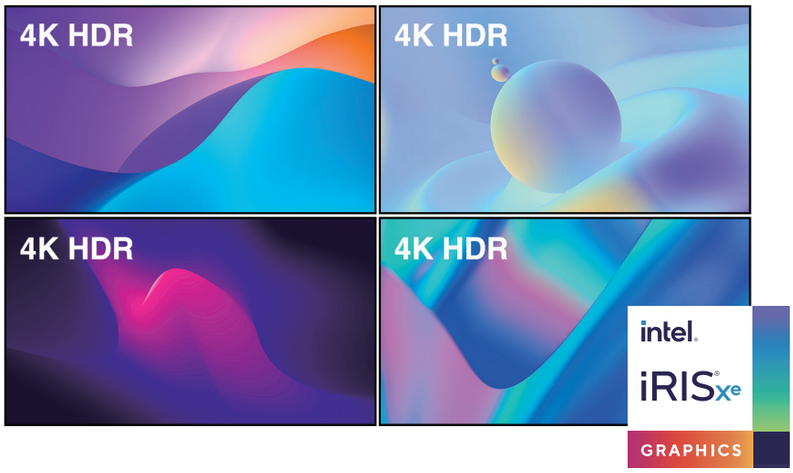
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Embedded Box PCs and Media Players

The perfect solution for the retail and infotainment industries, ADLINK's embedded computers and media players capture more foot traffic and improve business efficiency. These edge AI embedded computers deliver immersive visuals, ideal for eye-catching promotional content. With AI-driven computer vision and video analysis that reveals in-depth visitor demographics and business insights, these edge AI embedded computers and media players also help retailers tailor their sales strategies to drive increased revenue. These compact, fanless devices allow for easy and discreet installation on the back of a display, delivering performance from behind the scenes.

Highlighted Features



Mesmerizing Video Graphics

With Intel Iris® Xᵉ graphics, ADLINK's edge AI embedded computers and media players support 8K UHD video capabilities for awe-inspiring visual details and up to 40 simultaneous streams of 1080p 30-fps video content. The devices are highly compatible with video wall setups, with multi-display configuration for up to 4x channels of 4K HDR video content.

Video Analysis And Computer Vision At Edge

Advanced facial, speech, and object recognition and multi-modal sensor data fusion, driven by state-of-the-art deep learning technology, take business analytics to the next level.



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Compact And Fanless

ADLINK's embedded computers and media players deliver results with high power efficiency, with the ability for passive cooling minimizing the need for post-deployment support and maintenance and ensuring a small footprint.



High Energy Efficiency

Fanless Design

Compact Size

Product Series



EMP-510

11th Gen Intel® Core™ i5-Based Fanless Embedded Media Player



EMP-100

Dual 4K Fanless Media Player with palm size and slim design

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Advanced Embedded Box PC (EMP-510)



Model	EMP-510 Series		
System Core			
Processor	Intel® Core™ i5-1145G7E	Intel® Core™ i3-1115G4E	Intel® Celeron® 6305E
TDP	15W	15W	15W
# of Cores	4	2	2
Base Freq.	1.5 GHz	2.2 GHz	1.8 GHz
Max Turbo Freq.	4.1 GHz	3.9 GHz	-
Memory	DDR4 up to 64GB	DDR4 up to 64GB	DDR4 up to 64GB
I/O Interface			
Display	1x DP 1.4 3x HDMI 2.0	1x DP 1.4 3x HDMI 2.0	1x DP 1.4 3x HDMI 2.0
Ethernet	2x GbE RJ-45		
Serial Ports	1x DB9 COM (RS-232)		
USB	4x USB 3.0		4x USB 3.0
Audio	Line-out, Line-in		
Security	fTPM		
Storage	1x 2280 128GB, 1x 2230 for Wi-Fi/BT (option)		
Mechanical			
Dimensions	211 (W) x 115 (D) x 35 (H) mm		
Weight	2.5 kg		
Mounting	Wall mount(default)/ VESA mount (option)		
Power Supply			
DC Input	12V DC		
Environmental			
Operating Temperature	Standard: 0°C - 50°C / ETT: -20°C to 50°C		
Storage Temperature	-40°C to 85°C (-40°F to 185°F) (excluding storage)		
Humidity	~95% @ 40°C (104°F) (non-condensing)		
Vibration	Operating: 3 Grms, 5-500 Hz, 3 axes (w/ SSD)		
Shock	Operating: 50 Grms, half sine 11ms duration (w/ SSD)		
ESD	Contact ±4KV, Air ±8KV		
EMC	EN61000-6-4/-2, CE, FCC Class B		
Safety	UL/cUL, CB, CCC		

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Dual 4K Fanless Media Player (EMP-100)



Model	EMP-100
System Core	
Processor	Intel® Celeron® N6210 processor, Dual-core, 1.2GHz, 6.5W Intel® Celeron® J6412 processor, Quad-core, 2.0GHz, 10W
GPU	Intel® Gen 11 Graphics
Memory	1 x 260-pin DDR4 SO-DIMM, supports 3200MHz SDRAM up to 16GB
TPM	Integrated TPM 2.0
I/O Interface	
USB	3 x USB 3.2 Gen.1 (Type-A)
LAN	1 x GbE LAN (RJ-45)
Display Output	1 x HDMI 2.0, Maximum resolution 3840x2160 @ 60Hz 1 x HDMI 1.4, Maximum resolution 3840x2160 @ 30Hz
Audio Jack	1 x Headset jack
Serial	1 x RS-232 (optional)
Buttons	1 x power button with LED
Power Connector	1 x DC Jack for Power supply 12V
Storage Space	
M.2	1 x M.2 2280 Key M (SATA3 + PCIe X1) for SSD
SATA	1 x SATA-III connector
Expansion	
M.2	1 x M.2 2230 Key E (USB2.0 + PCIe X1) for optional Wi-Fi/BT module
Antennas	2 x Antenna holes for SMA-type antennas (Wi-Fi/BT)
Power Requirement	
Power Input	DC 12V
Mechanical	
Construction	Aluminum + SGCC
Mounting	Desktop/VESA/Wall mount
Dimension(W x L x D mm)	130 x 107 x 35
Weight	0.55 Kg
Environmental	
Operating Temperature	0 to 40°C (with 0.6 m/s air flow)
Storage Temperature	-10°C to 50°C
Storage Humidity	~95% @ 40°C (104°F) (non-condensing)
Certification	CE/FCC Class B
Support OS	
Operating System	Windows 10 (64-bit) /Windows 11 (64-bit) /Linux Ubuntu (64bit) by request

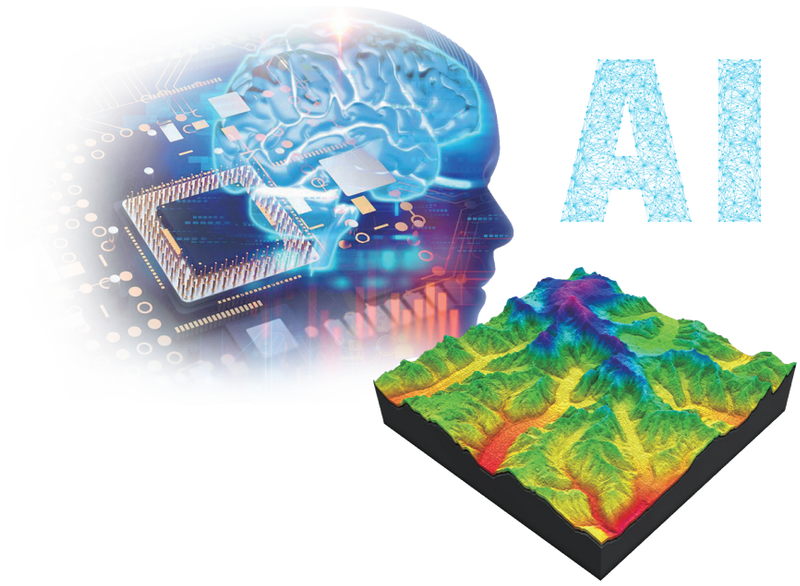
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GPU Solutions

Designed to support the heavy technological demand of industrial applications, ADLINK's GPU solutions incorporate the latest NVIDIA GPU technology to take graphics processing to the next level. ADLINK's GPUs allow for accelerated rendering, AI inferencing, graphics, and computing performance, all while reducing I/O latency and improving system responsiveness. ADLINK also takes common industrial concerns into consideration, with its embedded MXM GPUs that address size, weight, and power constraints and professional PCI express graphics cards that enhance graphics quality and support high-performance computing applications. Importantly, ADLINK's GPU solutions are durable and long-lived, able to respond to the demanding needs of the healthcare, manufacturing, logistics, transportation, aerospace, telecommunications, and defense industries over a long period.



Highlighted Features

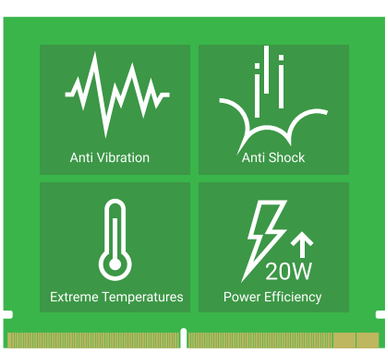


Accelerated rendering, AI, graphics, and computing performance

NVIDIA CUDA® Cores support general-purpose computing with GPU acceleration. Partnering with Tensor Cores to speed up AI interference and training, alongside RT Cores, which employ real-time ray tracing to boost cinematic image rendering performance and speed, ADLINK's GPU solutions drive better, faster results.

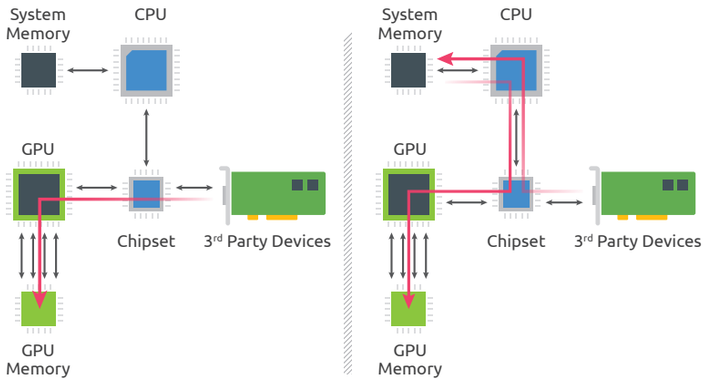
Compact, durable, and power-efficient MXM GPU modules

A mere one-fifth the size of PCIe graphics cards, ADLINK's MXM GPU modules minimize the footprint of the host system. The modules are designed to withstand the harsh physical conditions of an industrial environment, including vibrations, shocks, and extreme temperatures. ADLINK's MXM GPU modules are also easy on energy, with power consumption starting from just 20 watts.



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Dataflow with NVIDIA GPUDirect™ RDMA

Dataflow without NVIDIA GPUDirect RDMA

PCIe 4.0 SUPPORT

High bandwidth and reduced I/O latency

PCIe 4.0 support offers high bandwidth connection for data-intensive applications. With GPUDirect® RDMA, peripheral devices can directly access GPU memory, reducing I/O latency and increasing overall performance speed.

Long life support

ADLIKN's GPU solutions support five-year product availability to meet long-term development needs and the life cycles of embedded applications.

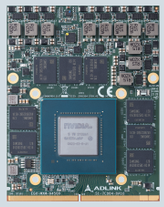


Product Series



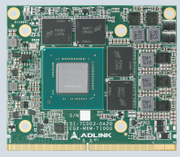
EGX-MXM AD Series

Embedded MXM GPU modules based on NVIDIA Ada Lovelace architecture



EGX-MXM A Series

Embedded MXM GPU modules based on NVIDIA Ampere architecture



EGX-MXM T Series

Embedded MXM GPU modules based on NVIDIA Turing™ architecture



MXM-Axe Series

Embedded MXM GPU modules based on Intel ® ARC architecture



Professional Graphics Solutions

PCI express graphics cards

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Embedded MXM GPU Modules
(NVIDIA Ada Lovelace Architecture)





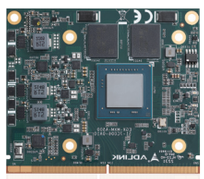


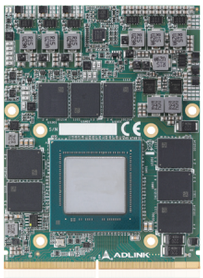
Model	EGX-MXM-AD2000	EGX-MXM-AD3500	EGX-MXM-AD5000
Graphic Core			
GPU	NVIDIA RTX™ 2000 ADA AD107-975 GPU	NVIDIA RTX™ 3500 ADA AD104-925 GPU	NVIDIA RTX™ 5000 ADA AD103-950-955 GPU
Memory	8GB GDDR6 memory, 128-bit, Bandwidth: 256GB/s	12GB GDDR6 memory, 192-bit, Bandwidth: 432GB/s	16GB GDDR6 memory, 256-bit, Bandwidth: 576GB/s
GPGPU Computing			
CUDA Cores	3072 CUDA Cores, 14.5 TFLOPS Peak FP32 performance	5120 CUDA® cores, 23 TFLOPS Peak FP32 performance	9728 CUDA Cores 42.6 TFLOPS Peak FP32 performance
Tensor Cores	96 Tensor Cores	160 Tensor Cores	304 Tensor Cores
RT Cores	24 RT Cores	40 RT Cores	76 RT Cores
Compute API	CUDA Toolkit 8.0 and above, CUDA Compute version 8 and above, OpenCL™ 1.2		
Graphics API	DirectX® 12.1, OpenGL 4.6		
Display			
Display Outputs	3 x DisplayPort 1.4a, HDMI 2.1, 4K at 120Hz or 8K at 60Hz with 10-bit color depth		
Interface	MXM 3.1, PCIe 4.0 x8 support	MXM 3.1, PCIe 4.0 x16 support	
Mechanicals			
Dimensions	82 (W) x 70 (D) x 4.8 (H) mm	82 (W) x 105 (D) x 4.8 (H)	
Form Factor	Standard MXM 3.1 Type A	Standard MXM 3.1 Type B	
Environmental			
Operating Temperature	Standard: 0°C to 55°C Extended Temperature: -20°C to 70°C		
Storage Temperature	-40°C to 85°C		
Module Power Consumption	60W TGP	115W TGP	
SW Support			
Operating System	Windows 11, 10 & Linux Drivers, 64-bit		

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Embedded MXM GPU Modules (NVIDIA Ampere Architecture)



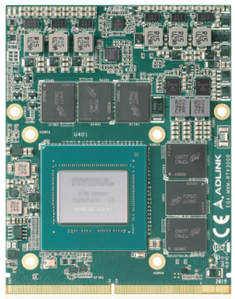
Model	EGX-MXM-A500	EGX-MXM-A1000	EGX-MXM-A2000	EGX-MXM-A4500
Graphic Core				
GPU	NVIDIA RTX™ A500 GA107-950 GPU	NVIDIA RTX™ A1000 GA107-950 GPU	NVIDIA RTX™ A2000 GA107-980 GPU	NVIDIA RTX™ A4500 GA104-955 GPU
Memory	2/4GB GDDR6 memory, 64-bit, Bandwidth: 96GB/s	4GB GDDR6 memory, 128-bit, Bandwidth: 192 GB/s	4GB/8GB GDDR6 memory, 128-bit, Bandwidth: 192 GB/s	8GB/16GB GDDR6 memory, 256-bit, Bandwidth: 512 GB/s
GPGPU Computing				
CUDA Cores	2048 CUDA Cores		2560 CUDA cores	5888 CUDA cores
	6.54 TFLOPS Peak FP32 performance	6.66 TFLOPS Peak FP32 performance	8.25 TFLOPS Peak FP32 performance	17.66 TFLOPS Peak FP32 performance
Tensor Cores	64 Tensor Cores		80 Tensor Cores	184 Tensor Cores
RT Cores	16 RT Cores		20 RT Cores	46 RT Cores
Compute API	CUDA Compute 8.0 and above, OpenCL™ 1.2			
Graphics API	DirectX® 12, OpenGL 4.6			
Display				
Display Outputs	N/A	4x DisplayPort 1.4, HDMI 2.1* 4K at 120Hz or 8K at 60Hz		
Interface	MXM 3.1, PCIe 4.0 x4 support	MXM 3.1, PCIe 4.0 x8 support		MXM 3.1, PCIe 4.0 x16 support
Mechanicals				
Dimensions	82 (W) x 70 (D) x 4.8 (H) mm			82 (W) x 105 (D) x 4.8 (H) mm
Form Factor	Standard MXM 3.1 Type A			Standard MXM 3.1 Type B
Environmental				
Operating Temperature	Standard: 0°C to 55°C Extended Temperature: : -20°C to 70°C			
Storage Temperature	-40°C to 85°C			
Module Power Consumption	40W TGP	35W or 60W TGP		80W or 115W TGP
SW Support				
Operating System	Windows 11, 10 & Linux Drivers, 64-bit			

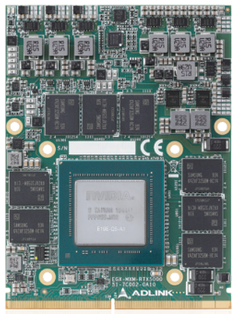
* Require custom VBIOS. Tech support available upon request.

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Embedded MXM GPU Modules
(NVIDIA Turing™ Architecture)



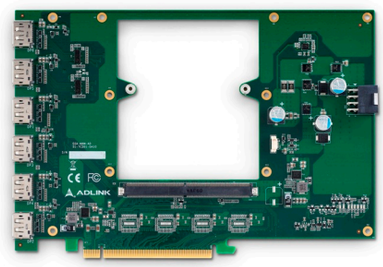




Model	EGX-MXM-T1000	EGX-MXM-RTX3000	EGX-MXM-RTX5000
Graphic Core			
GPU	Quadro® T1000	Quadro® RTX3000	Quadro® RTX5000
Memory	4GB GDDR6 memory, 128-bit, Bandwidth: 192 GB/s	6GB GDDR6 memory, 192-bit, Bandwidth: 336 GB/s	16GB GDDR6 memory, 256-bit, Bandwidth: 448 GB/s
GPGPU Computing			
CUDA Cores	896 CUDA cores, 2.6 TFLOPS Peak FP32 performance	1920 CUDA cores, 5.3 TFLOPS Peak FP32 performance	3072 CUDA cores, 9.4 TFLOPS Peak FP32 performance
Tensor Cores	-	240 Tensor Cores	384 Tensor Cores
RT Cores	-	30 RT Cores	48 RT Cores
Compute API	CUDA Toolkit 8.0 and above, CUDA Compute version 6.1 and above, OpenCL™ 1.2		
Graphics API	DirectX® 12, OpenGL 4.6, Vulkan 1.0 API		
Display			
Display Outputs	4x DisplayPort 1.4a digital video outputs 4K at 120Hz or 8K at 60Hz		
Interface	MXM 3.1, PCI Express Gen3 x16 support		
Mechanicals			
Dimensions	82 (W) x 70 (D) x 4.8 (H) mm	82 (W) x 105 (D) x 4.8 (H) mm	82 (W) x 110 (D) x 4.8 (H) mm
Form Factor	Standard MXM 3.1 Type A	Standard MXM 3.1 Type B	Standard MXM 3.1 Type B+
Environmental			
Operating Temperature	Standard: 0°C to 55°C Extended Temperature: -40°C to 85°C (T1000) -20°C to 70°C (RTX3000)		Standard: 0°C to 50°C
Storage Temperature	-40°C to 85°C		
Module Power Consumption	50W TGP	80W TGP	110W TGP
SW Support			
Operating System	Windows 11, 10 & Linux Drivers, 64-bit		

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PCIe-to-MXM adapter

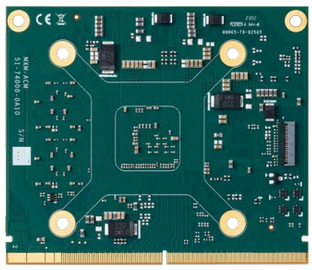


	EGX-MXM-AD
Supported MXM Modules	MXM 3.1 Type A, Type B, Type B+ compatible
Display Outputs	6 DP++ via DP 1.4 connectors, max. 4 simultaneous outputs
Resolution	Max. 7680 x 4320, dependent on MXM module
Fan Connectors	12V DC fan power connector
Ext. Power Input	Supports external power for MXM module, up to 120W
PCIe	PCIe Gen3 x16 (Gen4 design reserved)
Dimensions	235.95mm x 162.2mm
Operation System	Windows 10, Linux driver supported
Operating Temperature	-40°C to 85°C
Operating Humidity	~95% @40C (non-condensing)
Storage Temperature	-40°C to 85°C
ESD	Contact +/- 4KV, Air +/- 8KV
EMC	CE & FCC Class B

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Embedded MXM GPU Modules (Intel® Arc™ MXM-AXe)





	MXM-AXe	
Performance	Ray Trace (RT) Cores	Up to 8 Xe Cores
	Execution Units (EU)	Up to 128x
	XMX AI Cores	Yes
Memory	PCIe® Support	Gen4 x8 with 3.0 Backwards Compatibility
	Dedicated Memory	4GB of GDDR6
	Bandwidth	112 GB/s
	Interface	64-bit
Display	Outputs	4x DP2.0 or HDMI2.1
	Support (HDR enabled)	4x 3840x2160 (4k UHD, 60Hz) 2x 5120x2880 (5k UHD, 120Hz) 2x 7680x4320 (8k UHD, 60Hz) 1x 5120x1440 (5k Ultrawide, WUHD, 240Hz
Hardware Acceleration	Decode	VC, VC1, MPEG2, HEVC-10bit, VP9, JPEG
	Encode	AV1, AVC, MPEG2, HEVC, VP
	Ray Trace	Yes
	AI Engine	Yes
	VR Ready	Yes
Power	Consumption	A370M 35-50W TGP A350M 25-35W TGP
General	Form Factor	MXM Type A (82mm x 70mm)
	OS Support	Microsoft Windows 11 / Windows 10
Ordering Information	MXM-AXe-A370M	MXM 3.1 Type A Intel® ARC™ A370M Graphics at 35-50W, 4GB GDDR6, 4x DP2.0 or HDMI2.1
	MXM-AXe-A350M	MXM 3.1 Type A Intel® ARC™ A350M Graphics at 25-35W, 4GB GDDR6, 4x DP2.0 or HDMI2.1

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Professional Graphics Solutions (NVIDIA Ampere Architecture)






Model	NVIDIA RTX A2000	NVIDIA RTX A4000	NVIDIA RTX A5000	NVIDIA RTX A6000
Graphic Core				
Graphic Architecture	NVIDIA® Ampere™ GA106	NVIDIA® Ampere™ GA104	NVIDIA® Ampere™ GA102	
GPU	RTX A2000	RTX A4000	RTX A5000	RTX A6000
Memory	6/12 GB GDDR6 memory, 192-bit, Bandwidth: Up to 288 GB/s	16 GB GDDR6 memory, 256-bit, Bandwidth: Up to 448 GB/s	24 GB GDDR6 memory, 384-bit, Bandwidth: Up to 768 GB/s	48 GB GDDR6 memory, 384-bit, Bandwidth: Up to 768 GB/s
ECC	Yes			
GPGPU Computing				
CUDA Cores	3,328 CUDA® cores, 8.0 TFLOPS SP Peak	6,144 CUDA® cores, 19.2 TFLOPS SP Peak	8,192 CUDA® cores, 27.8 TFLOPS SP Peak	10,752 CUDA® cores, 38.7 TFLOPS SP Peak
Tensor Cores	104 63.9 TFLOPS	192 153.4 TFLOPS	256 222.2 TFLOPS	336 309.7 TFLOPS
RT Cores	26 15.6 TFLOPS	48 37.4 TFLOPS	64 54.2 TFLOPS	84 75.6 TFLOPS
Compute API	CUDA Toolkit 8.0, CUDA Compute version 6.1, OpenCL™ 1.2			
Graphics API	Shader Model 5.17, OpenGL 4.68, DirectX 12.07, Vulkan 1.2			
Display				
Display Outputs	4 x mDP 1.4 with latching mechanism 4x 4096 x 2160 @ 120Hz 4x 5120 x 2880 @ 60Hz 2x 7680 x 4320 @ 60Hz	4 x DP 1.4 4x 4096 x 2160 @ 120Hz 4x 5120 x 2880 @ 60Hz 2x 7680 x 4320 @ 60Hz		
Interface	PCI Express 4.0 x16			
Mechanicals				
Dimensions	2.7" H x 6.6" L, dual slot	4.4" H x 9.5" L, single slot	4.4" H x 10.5" L, dual slot	
Form Factor			Full height, full length NVIDIA Form Factor 5.0 compliant	
Environmental				
Operating Temperature	0˚C to 50˚C		0˚C to 45˚C	
Storage Temperature	-40˚C to 75˚C			
Module Power Consumption	70W	140W	230W	300W
SW Support				
Operating System	Windows 10 & Linux drivers, 64-bit			

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Portable GPU - Pocket AI
(NVIDIA Ampere Architecture)



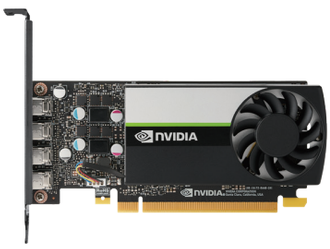
	EGX-TBT-A500
GPU Architecture	NVIDIA Ampere GA107
GPU clock	Base clock: 435 MHz Boost clock: 1335 MHz
CUDA Cores	2,048
NVIDIA Tensor Cores	64
NVIDIA RT Cores	16
Single-Precision Floating Point (TFLOPS)	6.54 TFLOPS
GPU Memory	4 GB GDDR6
Memory Clock	6001 MHz
Memory Interface Width	64-bit
Memory Bandwidth (GB/sec)	96 GB/s
TGP	25 W*
Interface	Thunderbolt™ 3.0 (PCI Express 3.0 x 4)
Dimensions	Without Protective Case 106mm x 72mm x25mm With Protective Case 110mm x 76mm x32mm
Weight	250g
NVENC | NVDEC	1x | 2x
Operating System	Windows 10, Window 11, Linux**
Operating Temperature	0°C to 40°C

* Require Adapter/Charger or Power Bank with USB Power Delivery 3.0+ via Type-C connection on 15V and 40W+ supports.

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Professional Graphics Solutions
(NVIDIA Turing™ Architecture)





Model	NVIDIA T1000	NVIDIA T1000E-8GB
Graphic Core		
Graphic Architecture	NVIDIA® Turing™ TU117	
GPU	NVIDIA T1000	
Memory	4GB GDDR6 memory, 128-bit, Bandwidth: Up to 160 GB/s	8GB GDDR6 memory, 128-bit, Bandwidth: Up to 160 GB/s
ECC	N/A	
GPGPU Computing		
CUDA Cores	896 CUDA® cores, 2.5 TFLOPS SP Peak	
Compute API	CUDA Toolkit 8.0, CUDA Compute version 6.1, OpenCL™ 1.2	
Graphics API	Shader Model 5.1, OpenGL 4.6, DirectX 12.0, Vulkan 1.2	
Display		
Display Outputs	4 x mDP 1.4 with latching mechanism 4x 3840 x 2160 @ 120Hz 4x 5120 x 2880 @ 60Hz 2x 7680 x 4320 @ 60Hz	
Interface	PCI Express 3.0 x16	
Mechanicals		
Dimensions	2.7" H x 6.1" L, single slot	
Form Factor	Half height	
Environmental		
Operating Temperature	0˚C to 55˚C	
Storage Temperature	-40˚C to 75˚C	
Module Power Consumption	50W	
SW Support		
Operating System	Windows® 10 & Linux drivers, 64-bit	

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Professional Graphics Solutions
(NVIDIA Turing™ Architecture)



Model N	NVIDIA T400 4GB	NVIDIA T400E	NVIDIA T600E
Graphic Core			
Graphic Architecture	NVIDIA® Turing™ TU117		
GPU	NVIDIA T400		NVIDIA T600
Memory	4GB GDDR6 memory, 64-bit, Bandwidth: Up to 80 GB/s		4GB GDDR6 memory, 128-bit, Bandwidth: Up to 160 GB/s
ECC	N/A		
GPGPU Computing			
CUDA Cores	384 CUDA® cores, 1.09 TFLOPS Peak FP32 Performance		640 CUDA® cores, 1.7 TFLOPS Peak FP32 Performance
Compute API	CUDA Toolkit 8.0, CUDA Compute version 6.1, OpenCL™ 1.2		
Graphics API	Shader Model 5.1, OpenGL 4.6, DirectX 12.0, Vulkan 1.2		
Display			
Display Outputs	3 x mDP 1.4 3x 3840 x 2160 @ 120Hz 3x 5120 x 2880 @ 60Hz	4 x mDP 1.4 4x 3840 x 2160 @ 120Hz 4x 5120 x 2880 @ 60Hz 2x 7680 x 4320 @ 60Hz	
Interface	PCI Express 3.0 x16		
Mechanicals			
Dimensions	2.713 inches x 6.137 inches, single-slot		
Weight	123g	129g	
Environmental			
Operating Temperature	0˚C to 55˚C		
Storage Temperature	-40˚C to 75˚C		
Module Power Consumption	30W		40W
SW Support			
Operating System	Windows® 10 & Linux drivers, 64-bit		

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Professional Graphics Solutions (Intel® Arc™ PCIe)



Model	Intel® Arc™ A380E
Graphic Core	
Graphic Architecture	Arc Alchemist
GPU	A380E
Memory	6GB GDDR6
ECC	N/A
GPGPU Computing	
X Cores	8
Render Slices	2
Ray Tracing Units	8
XMX Engines	128
Support Technology	OpenVino/ DirectX 12/ Vulkan 1.3/ OpenGL 4.6/ OpenCL 3.0
Display	
Display Outputs	4 x mDP
Interface	PCI Express 4.0 x8 (x16 slot required)
Mechanicals	
Dimensions	TBD
Form Factor	Half Height, Half Length
Environmental	
Operating Temperature	0˚C to 55˚C
Storage Temperature	-40˚C to 85˚C
Module Power Consumption	50W
SW Support	
Operating System	Windows 11 & Linux drivers, 64-bit

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Comprehensive Solutions

Industrial Monitors, Panel PCs, Media Player, MXM GPU modules and Graphics Cards

With ADLINK, We offer comprehensive industrial-grade touch monitors and smart panel PCs with one-stop value-added customization through Human Machine Interface (HMI) solutions with our experts to fulfill edge visualization. Most importantly, ADLINK is a Titanium Tier member of the Intel® Partner Alliance, an NVIDIA® Quadro® Embedded Partner, and teams up with AUO® Display Plus to ensure the products with solid-build quality, meet various requirements across industries, help customers significantly lower the total cost of ownership (TCO), and facilitate fast time-to-market.

Recommended Products



OM & IM Series

Industrial touch monitors



SP2 Series

Open-frame panel PCs



STC2 Series

All-in-One panel PCs

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Manufacturing



Machine Control



Product Status Monitoring



Paperless SOPs

Healthcare



Medical Devices

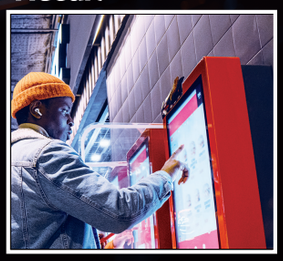


Laboratory Analyzers



Pharmacy Systems

Retail



Vending Machines

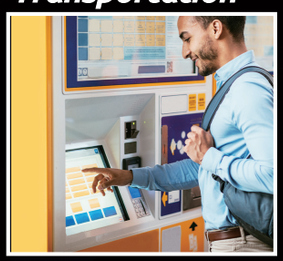


Self-Checkout Kosks



Intelligent Digital Signage

Transportation



Automated Ticket Machines



Information Signage

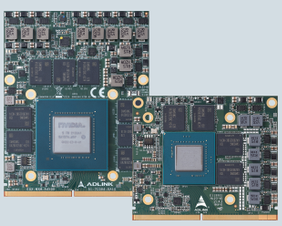


Self-Pickup Kiosks



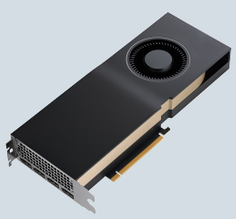
EMP Series

Embedded
box PCs and media players



EGX MXM Series

Embedded
MXM GPU modules



Professional Graphics Solutions

PCI express graphics cards

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