





Visualize Actionable Intelligence at the Edge

> www.adlink.com www.digicor.com.au

Product Catalogue



Products Industries Strategic Partners Support

About

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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 costeffective 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<sup>®</sup> 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).



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.



### Search

GPU

Industrial Display





Visit ADLINK website to get up to date specification.

# 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.

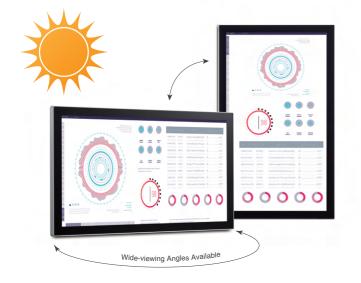


## Highlighted Features



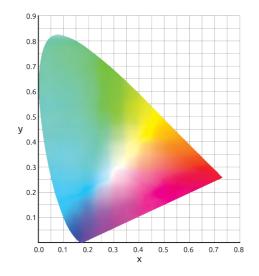
#### Immersive Visuals

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 multitouch 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.



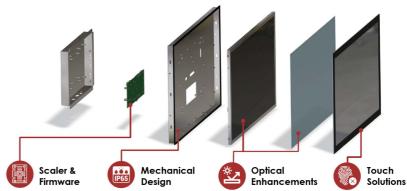
# AUO AUO Display+ **IP65 Front Panel** 7H Hardness

MTBF UP to 50,000 hrs.

#### **High Durability**

Conner and

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

# Open Frame (OM Series) Fullscreen Models







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				
Backlight Life (Hrs)			50,000			
Viewing Angle (U/D/R/L)	89/89/89/89	80/80/70/70	80/80/70/80	80/80/8	35/85	
Contrast Ratio	1300:1	700:1	800:1	100	0:1	
Touchscreen		10-poin	t, PCAP, Anti-fingerprint co	pating		
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 t	o 70°C	0°C to 60°C	0°C to 50°C	-20°C to 70°C	
Storage Temperature	-20°C t	o 70°C	-10°C to 60°C	-20°C to 60°C	-20°C to 70°C	
Humidity		10% to	o 80% @ 40°C (non-conden	sing)		
Surface Hardness			7H			
Vibration		Ope	erating: 1G random 5 to 500	)Hz		
Shock		Operating:	20G acceleration part to pa	rt, 11ms		
IP Rating			Front IP65			
Power Input			DC-12V 5A Max.			
Power Consumption	3.7W	7.4W	8.1W	16	W	
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 18	80 x 508	
Mounting	Panel mount only	VESA Mo	unt (MIS-D 75mm x 75mm,	100mm x 100mm) Panel, a	nd Wall mount	

# 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	0,000 (215H)	40,000
Viewing Angle (U/D/R/L)		89/89/8	39/89		85/85/8	35/85
Contrast Ratio	800:1		1000:1/3000:1 (215	H)	300	0:1
Fouchscreen		10-point, PCAP, Anti-fingerprint coating				
Bonding			Air bo	nding		
I/O						
JSB Port		USB type B (for touch)				
Video			HDMI x1,	VGA x1		
Audio			w/o A	Audio		
Environmental						
Operating Temperature	-20°C to	970°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	C (215H)
Humidity			10% to 80% @ 40°	C (non-condensing)		
Surface Hardness			7	Ϋ́Η		
/ibration			Operating: 1G ra	andom 5 to 500Hz		
Shock		0	perating: 20G accelera	tion part to part, 11ms		
P 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 (M	1IS-D 75mm x 75mm,1	00mm x 100mm) Panel,	and Wall mount	1





#### Open Frame (OM Series) Widescreen Models







#### True Flat (IM Series)





Model	OM-320	OM-430	Model
Display			Display
Size	32"	43"	Size
Resolution (Max.)	1920 x	1080	Resolutio
Aspect Ratio	16	:9	Aspect Ra
Color	16.7	7M	Color
Brightness (w/ touch)	400 r	nits	Brightnes
Backlight Life (Hrs)	50,0	00	Backlight
Viewing Angle (U/D/R/L)	89/89/8	9/89	Viewing A
Contrast Ratio	400	0:1	Contrast I
Touchscreen	10-point, PCAP, Anti	-fingerprint coating	Touchscre Bonding
Bonding	Air bo	nding	I/O
I/O			USB Port
USB Port	USB type B (	for touch)	Video
Video	HDMI x1, VGA x1,		Audio
Audio	w/o Au		Environ
Environmental			Operating
Operating Temperature	0°C to	40°C	Storage T
Storage Temperature	-20°C to		Humidity
Humidity	10% to 90% (no		Surface H
Surface Hardness	>>6		Vibration
	Opera		Shock
Vibration	1.5G random		IP Rating
Shock	N	A	Certificati
IP Rating	Front	P65	Power Inp
Power Input	DC-24V 5/	A Max.	Power Co
Power Consumption	38.4 W	50.4 W	Mechan
Mechanical			Net Weig
Net Weight/ Gross Weight	14.2 kg / 15.1 kg	26.5 kg / 26.85 kg	Packing D
Packing Dimensions (W x L x D mm)	630 x 920 x 160 mm	800 x 1200 x 220 mm	Mounting
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	

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	300	00:1
Touchscreen	10-р	oint, PCAP, Anti-fingerprint coatin	g
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	o 50°C
Storage Temperature		-20°C to 60°C	
Humidity	109	% to 80% @ 40°C (non-condensing)	)
Surface Hardness		7H	
Vibration	C	perating: 1G random 5 to 500Hz	
Shock	Operati	ng: 20G acceleration part to part, 1	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	VE	SA Mount, MIS-D 75mm x 75mm, 100mm x 100mm (Standard)	





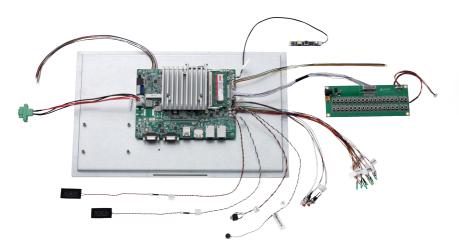
# Open Frame Panel PCs – **SP2** Series

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.





### 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<sup>®</sup> Core™ processor



SP2-KL

Powered by 7th generation Intel<sup>®</sup> Core<sup>™</sup> 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

### Mainboard

>

### SBC - SP2 series

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

### SP2-TGL



11th Gen. Intel® Core™ and Celeron<sup>®</sup> Processors

#### SP2-KL



7th Gen. Intel<sup>®</sup> Core™

### SP2-EHL



Intel Antom<sup>®</sup> x6000E series

### SP2-AL



Intel Antom® E3900 series

# **Function Module**

## Function Module

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

**SP-FM** 

USB 3.0 x2, USB 2.0 x3

Multiple USB peripherals

USB 3.0 x4 (Type C x1) USB 2.0 x4, LAN, DP M.2 2242, RS485 (ISO)

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** 

Full COM x2

**Titan-FM** 

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

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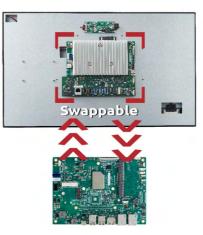
## Finalizing

Panel Size

and Chassis

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

### **Open Frame**





#### **Open Frame Panel PC** (SP2-TGL Series)





Model	SP2-10WP-TGL
System	
Processor	11th Gen Intel® Core™ and Celeron® Pri Intel® Core™ i7-11850 Intel® Core™ i5-1145 Intel® Core™ i3-111 Intel® Core™ i3-111 Intel® Core™ i7-11850 Intel® Core™ i5-11450 Intel® Core™ i3-1115
Memory	2x SODIMM non-ECC 24
Storage	1x M.2 SATA 6 Gbps port, M key 22
Display and Touch	
Size	10.1"
Resolution (Max.)	1280 x 800
Contrast Ratio	800:1
rightness (Nits)	400 cd/m2 (typ)
Backlight Life (Hrs)	
/iewing Angle (U/D/R/L)	
Touch screen	
Surface Hardness	
Surface Treatment	
External I/O	
Ethernet	2x GbE (Intel®
Serial Port	1x RS-232/42
	1x USE
USB Port	1x USB 3.2
	2 x USB 3.2, ge
	1x DP, DP++, supp
Display Port	1x MiniDP, DP++, su
Internal I/O with Wire to E	
USB Port	
<sup>2</sup> C	
	1x for
Audio	
1	1x for 32
Keys	1x supports LCD backlight
COM Port	1x RS-232/42
SPIO	1>
PCIe Slot	1x F
	1x
1.2	
SIM	1x SIM sl
Power with Wire to Board	
	AT/
Power Input	12V ±5% / 9-3
Power Connector	1x
Power/Fail Reset	1x wafer, support syste
Backup Battery	1x wafer for UPS kit to ba
Environmental	
Operating Temperature	0°C to 60°C (Default), -20°C to 60
Storage Temperature	-20°C to 70°C
Humidity	
Vibration	OP 1 Grms, 5-500Hz w/
Vibration	OF TUILIS, S-SUUHZ W/
Charl	00000
Shock	OP 20G peak acceleration
IP Rating	
ESD	Air
	EMI: IEC/EN 61000-3-2
	EMINIEC/ENTOTODO 5 2
EMC/Safety Compliance	
EMC/Safety Compliance	EMC: CE, FCC Class B, IEC 60601-1
	Safety: Compl
	*SP2-TGL has passed pre-c
Software	
WDT	Wat
	Windows <sup>®</sup> 10 IoT E
	VVIII00VVS 10101 E
Operating System	
Operating System Mechanical	
Operating System <b>Mechanical</b> Construction	240.00 200 200 04 4 + 2
Operating System Mechanical Construction Dimensions (W x L x D mm)	
Operating System Mechanical Construction Dimensions (W x L x D mm) Weight	249.66 x 168.3 x 64.4 ± 2 383 2.06 ± 0.2kg
Operating System Mechanical Construction Dimensions (W x L x D mm) Weight Mounting Kit	2.06 ± 0.2kg
Operating System Mechanical Construction Dimensions (W x L x D mm) Weight Mounting Kit (optional accessories)	

\* Please refer to the following specifications for more information.

ocessors - Mobile 10nm++ process(formerly "Tiger Lake UP3") G7E, 2.8(4.4)GHz, 12MB, 15-28W (4C/Iris Xe) G7E, 2.6 (4.1)GHz, 8MB, 15-28W (4C/Iris Xe) 5G4E, 3.0(3.9)GHz 6MB, 15-28W (2C/UHD) 6305E, 1.8 GHz, 4MB, 15W (2C/UHD) GRE, 2.8 (4.4) GHz, 12MB, 15-28W (4C/Iris Xe) GRE, 2.6 (4.1) GHz, 8MB, 15-28W (4C/Iris Xe) GRE, 3.0 (3.9) GHz, 6MB, 15-28W (2C/UHD)

400/3200 MHz DDR4 memory up to 64GB 80 and 1x 2.5" SSD/HDD SATA 6 Gbps port (Optional)

15.6"	21.5"
1920 ×	
100	
420 cd/m2 (typ)	400 cd/m2 (typ)
50,000 89/89/89	
10 points	
7H	
Anti-Fingerprint	
225), RJ-45, WOL, Up to 2.5 Gb	/s
2/485 programmable, auto flov	
2.0, Type A, OCP, 1000mA	
, 5 Gbps, Type A, OCP, 1600mA	
n 2, 10 Gbps, Type A, OCP, 1600	Ama
orts resolutions up to 5120x32	00@60Hz
pports resolutions up to 5120x	3200@60Hz
1x USB 2.0 client	
2x for I <sup>2</sup> C client	
2x stereo speaker (2 watt)	
x Mic-in and Line-out	
1x buzzer	
physical keys (BOM optional),	
up/down and volume up/down	
2/485 programmable, auto flov	V
supports 8-pin GPI/O CIe Gen 4 x4 (Optional)	
A/E key 2230 (Wi-Fi/BT)	
x B key 3042 (4G/5G)	
t for 4G/5G communication	
ATX (Default: AT mode)	
SV, both with OVP/UVP protect	ion
5-pin power connector	
m reset & power button and p	
ckup data when AC shuts dowr	n (Optional)
C (By Request)	0°C to 60°C
	-20°C to 60°C
10% to 95%	
SSD, (IEC60068-2-64) X, Y, Z ax	es 60 min/axis
550, (1200000 2 0 1) X, 1, 2 0X	
, 11 ms (IEC60068-2-64)±X, ±Y,	±Z. 3 shocks/asix
IP65 for front	
±15kV, Contact: ±8kV IEC/EN 61000-3-3, EN 61000-6	4 EN 55022
	-4, EN 55052
EN 55035, EN 61000-6-2	IECE D10 EN E0121 2 2
-2:2014/EN60601-1-2:2015, UN ant with 60601-1/61010-1/623	
ompliance testing of EMI, EMS,	EMC, and Sarety.
h Dog Timer supported	22.04
nterprise x64 bit, Linux Ubuntu	22.04
5000	
SGCC .15 x 232.79 x 65.1 ± 2	517.46 x 309.19 x 67.6 ± 2
3.02 ± 0.2kg	4.85 ± 0.2kg
1) Panel mounting	1.05 ± 0.2Kg

unting, support by a rear cover

#### 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) 1 ® Core™ i5-7300U 2.6/3.5 GHz (Turbo) 1	5W			
Memory		el® Core™ i3-7100U 2.4 GHz (Turbo) 15V DDIMM socket, DDR3L 1600MHz (Up to 8				
Storage		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)			
5	400 CU/112 (Lyp)	50.000	400 Cd/112 (Lyp)			
Backlight Life (Hrs)						
Viewing Angle (U/D/R/L)		89/89/89				
Touch Point		10 points				
Touch Structure		Glass/Glass				
Surface Hardness		7H				
Surface Treatment		Anti-Fingerprint				
External I/O						
Ethernet	2x G	bE (Intel <sup>®</sup> I225), RJ-45, WOL, Up to 2.5 G	b/s			
Serial Port		RS-232/422/485 programmable, auto flo				
	241	1x USB 2.0, Type A, OCP				
USB Port		1x USB 3.0, Type A, OCP				
		2++, supports resolutions up to 4096x23	04@6047			
Display Port		2++, supports resolutions up to 4096x23 DP++, supports resolutions up to 4096x2	-			
Internal I/O with Wire to E						
USB Port		2x USB 2.0 client				
l <sup>2</sup> C		2x for I <sup>2</sup> C client				
		1x for 2x stereo speaker (2 watt)				
Audio	1x Mic-in and Line-out					
	1x Mic-in and Line-out 1x buzzer					
		1x for 32 physical keys (BOM optional),				
Keys						
		backlight up/down and volume up/down				
COM Port	2x F	RS-232/422/485 programmable, auto flo	W			
GPIO		1x supports 8-pin GPI/O				
PCIe Slot		1x PCIe Gen3 x4 (Optional)				
mPCle		1x mPCIe slot (Wi-Fi/BT/4G)				
SIM		1x SIM slot for 4G/5G communication				
Power with Wire to Board	Connectors					
Power Input	4.214	AT/ATX (default: AT mode)	stice			
	12V	±5% / 9-36V, both with OVP/UVP protect	LUON			
Power Connector		1x 4-pin power connector				
Power/Fail Reset		port system reset & power button and p				
Backup Battery	1x wafer for UP	PS kit to backup data when AC shuts dow	vn (Optional)			
Environmental						
Operating Temperature	-20°C to	0.60°C	0°C to 60°C			
Storage Temperature	-20°C to		-20°C to 60°C			
Humidity		10% to 95%				
Vibration	OP 1 Grms 5-50	0Hz w/ SSD, (IEC60068-2-64), X, Y, Z axe	s. 60 min/axis			
Shock		eration, 11 ms (IEC60068-2-64), ±X, ±Y, ±				
IP Rating	Ci 200 peak accell	IP65 for front	0 0110000 001A			
ESD		Air: ±15kV, Contact: ±8kV				
			6.4 EN 55032			
	EMI: IEC/EN 6	51000-3-2, IEC/EN 61000-3-3, EN 61000-	0-4, EN 33032			
ENAC/Cafaby Caraali		EMS: EN 55035, EN 61000-6-2,				
EMC/Safety Compliance		C 60601-1-2:2014/EN60601-1-2:2015, U				
		ty: Compliant with 60601-1/61010-1/62				
	*SP-KL has pass	ed pre-compliance testing of EMI, EMS, I	EMC, and Safety.			
Software						
SEMA		SEMA 4.0				
WDT		Watch Dog Timer supported				
Operating System		Windows <sup>®</sup> 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 × 309.19 × 67.6 ± 2			
Weight	2.06 ± 0.2kg	3.02 ± 0.2kg	4.85 ± 0.2kg			
Manual has been	1) Panel Mounting					
Mounting kit (optional accessories)		VESA mounting, support by a rear cover				

#### Open Frame Panel PC (SP2-EHL Series)





Model	SP2-07WP-EHL	SP2-10WP-EHL	SP2-15WP-EHL	SP2-21WP-EHL		
System						
Processor		Intel Atom <sup>®</sup> x6425E, 2.0(3.0) GHz, 12W, 4C/32EU Intel Atom <sup>®</sup> x6413E, 1.5(3.0) GHz, 9W, 4C/16EU Intel Atom <sup>®</sup> x6211E, 1.2(3.0) GHz, 6W, 2C/16EU Intel Atom <sup>®</sup> J6412, 2.0(2.6) GHz, 10W, 4C/16EU				
Aemory		1x SODIMM socket, DDR	4 3200MHz (Up to 32GB)			
storage	1x M	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						
bize	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			
/iewing Angle (U/D/R/L)	85/85/85/85		89/89/89/89			
ouch Points	5 points		10 points			
ouchscreen type		Capacitive touch screen (standard), Glass/Glass Resistive Touch Screen (Optional)				
iurface Hardness		7H				
urface Treatment	Clear		Anti-Fingerprint			
xternal I/O						
thernet	2x GbE	(Intel <sup>®</sup> I226), RJ-45, WOL ([	Default 1Gbps, optional: 2.5Gb	ops)		
ower Over Ethernet	Su	Supports 60W PoE (PD) with external module (optional)				
JSB 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)				
nternal I/O with Wire to Bo	oard Connectors					
ISB Ports		2x USB 2.0	client, wafer			
COM Ports	2x RS	-232/422/485 programma	ble, auto flow (wire to connec OM 2: BOM optional	tors)		
<sup>2</sup> C connectors			client, wafer			
Audio (Optional)		1x Mic-	peaker (2 watt) in/line-out puzzer			
Keys	1х Ѕирро		hysical key (Optional), and volume up/down (BOM c	optional)		
SPIO		1x 8-p	oin GPI/O			
Power/Reset			r (with LED) et button			
ED		Suppor	ts 10 LEDs			
nPCle		1x full siz	e mPCIe slot			
1.2 2230 slot		1x M.2 2230 E key for	wireless (Wi-Fi/Bluetooth)			
Power with Wire to Board (	Connectors					
ower Input	AT/ATX (def	ault: AT mode), 12V ±5% /	9-36V, both with OVP/UVP pr	otection		
Power Connector		1x 6-pin pow	ver connector			
Backup Battery	1x Wafe	er for UPS kit to backup da	ta when AC shuts down (optio	nal)		



# Open Frame Panel PC (SP2-AL Series)

intel



Model	SP2-07WP-AL	SP2-10WP-AL	SP2-15WP-AL	SP2-21WP-AL		
System						
Processor			.0GHz (Turbo), 12W (4C/1866)			
10003301	Intel Atom <sup>®</sup> x5-E3930 1.3/1.8GHz (Turbo), 6W (2C/1866)					
Memory	1x SODIMM socket, DDR3L 1600MHz (Up to 8GB)					
Storage			port, M key 2280 and			
_		1x 2.5" SSD/HDD SAT	A 6 Gbps port (Optional)			
Display and Touch						
bize	7"	10.1"	15.6"	21.5"		
Resolution (Max.)	1024 x 600	1280 × 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			
/iewing Angle (U/D/R/L)	85/85/85/85		89/89/89/89			
ouch Point	5 points		10 points			
ouch Structure		Glass	Glass			
Surface Hardness		7	7H			
Surface Treatment	Clear		Anti-Fingerprint			
External I/O						
thernet		2x GbE (Intel <sup>®</sup> 1225),	RJ-45, WOL, 1 Gb/s			
erial Port		2x RS-232/422/485 pro	grammable, auto flow			
JSB Port		1x USB 2.0, Type	e A, OCP, 1000mA			
JSD PUIL		1x USB 3.0, Type	A, OCP, 1600mA			
Display Port		1x DP, DP++, supports resolut	ions up to 4096x2160@60Hz			
nternal I/O with Wire to						
JSB Port		1x USB	2.0 client			
<sup>2</sup> C		2x for I	<sup>2</sup> C client			
		1x for 2x stereo speaker (2 watt)				
Audio	1x Mic-in and Line-out					
		1x for 32 physical keys (BOM optional),				
Keys	1x sup		and volume up/down (BOM op	tional)		
GPIO			8-pin GPI/O			
mPCle		1x mPCIe slot	: (Wi-Fi/BT/4G)			
SIM		1x SIM slot for 4G/	5G communication			
Power with Wire to Boar	d Connectors					
		AT/ATX (defa	ault: AT mode)			
Power Input		12V ±5% / 9-36V, both v	with OVP/UVP protection			
Power Connector		1x 4-pin pow	ver connector			
Power/Fail Reset	1x	wafer, support system reset	& power button and power LED	)		
Backup Battery	1x w	afer for UPS kit to backup dat	a when AC shuts down (Option	al)		
Environmental						
	-20°C to 60°C	-20°C	to 60°C	0°C to 60°C		
Operating Temperature	-20°C to 60°C	-20°C	to 60°C	0°C to 60°C -20°C to 60°C		
Operating Temperature Storage Temperature	-20°C to 60°C	-20°C to 70°C	to 60°C	0°C to 60°C -20°C to 60°C		
Operating Temperature Storage Temperature Humidity		-20°C to 70°C 10% t	:0 95%	-20°C to 60°C		
Operating Temperature Storage Temperature Humidity /ibration	OP 1	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60	:o 95% 068-2-64), X, Y, Z axes, 60 min/a	-20°C to 60°C axis		
Operating Temperature Storage Temperature Humidity /ibration Shock	OP 1	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC	:o 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shocł	-20°C to 60°C axis		
Operating Temperature Storage Temperature Humidity /ibration Shock P Rating	OP 1	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 peak acceleration, 11 ms (IEC IP65 fo	:o 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock or front	-20°C to 60°C axis		
Operating Temperature Storage Temperature Humidity /ibration Shock P Rating	OP 1 OP 20G	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fo Air: ±15kV, C	:o 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV	-20°C to 60°C axis <s asix<="" td=""></s>		
Operating Temperature Storage Temperature Humidity Vibration Shock P Rating	OP 1 OP 20G	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fr Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6	to 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550	-20°C to 60°C axis <s asix<="" td=""></s>		
Operating Temperature Storage Temperature Humidity /ibration Shock P Rating ESD	OP 1 OP 20G EM	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fr Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503	to 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2,	-20°C to 60°C axis cs/asix		
Operating Temperature Storage Temperature Humidity /ibration Shock P Rating ESD	OP 1 OP 20G EM	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fr Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f	to 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550	-20°C to 60°C axis cs/asix		
Operating Temperature Storage Temperature Humidity /ibration Shock P Rating SD	OP 1 OP 20G EM EMC: CE, FCC	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fr Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6	co 95% 068-2-64), X, Y, Z axes, 60 min/ 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN60601-1-2:2015, UNECE R10	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2</s>		
Dperating Temperature Storage Temperature Humidity /ibration Shock P Rating SD EMC/Safety Compliance	OP 1 OP 20G EM EMC: CE, FCC	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fr Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6	co 95% 068-2-64), X, Y, Z axes, 60 min/ 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN60601-1-2:2015, UNECE R10, 50601-1/61010-1/62368-1	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2</s>		
Deparating Temperature Storage Temperature Humidity /ibration Shock P Rating SD EMC/Safety Compliance Software	OP 1 OP 20G EM EMC: CE, FCC	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fc Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6 AL has passed pre-compliance	to 95% 068-2-64), X, Y, Z axes, 60 min/3 60068-2-64), ±X, ±Y, ±Z, 3 shock for front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN60601-1-2:2015, UNECE R10 50601-1/61010-1/62368-1 testing of EMI, EMS, EMC, and	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2</s>		
Deparating Temperature Storage Temperature Humidity /ibration Shock P Rating SD EMC/Safety Compliance Software SEMA	OP 1 OP 20G EM EMC: CE, FCC	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fc Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6 AL has passed pre-compliance SEM	to 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock for front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN60601-1-2:2015, UNECE R10 50601-1/61010-1/62368-1 testing of EMI, EMS, EMC, and IA 4.0	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2</s>		
Deparating Temperature Storage Temperature Humidity /ibration Shock P Rating ESD EMC/Safety Compliance Software SEMA WDT	OP 1 OP 20G EM EMC: CE, FCC	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fc Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6 AL has passed pre-compliance SEM Watchdog Tir	to 95% 068-2-64), X, Y, Z axes, 60 min/3 60068-2-64), ±X, ±Y, ±Z, 3 shock for front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN60601-1-2:2015, UNECE R10 50601-1/61010-1/62368-1 testing of EMI, EMS, EMC, and	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2</s>		
Dperating Temperature Storage Temperature Humidity /ibration Shock P Rating ESD EMC/Safety Compliance Software SEMA NDT Dperating System	OP 1 OP 20G EM EMC: CE, FCC	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 Deak acceleration, 11 ms (IEC IP65 fc Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6 Safety: Compliant with 6 L has passed pre-compliance SEM Watchdog Tin Windows® 10 IoT	to 95% 068-2-64), X, Y, Z axes, 60 min/3 60068-2-64), ±X, ±Y, ±Z, 3 shock for front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN60601-1-2:2015, UNECE R10 50601-1/61010-1/62368-1 testing of EMI, EMS, EMC, and IA 4.0 ner supported	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2</s>		
Dperating Temperature Storage Temperature Humidity /ibration Shock P Rating ESD EMC/Safety Compliance Software SEMA NDT Dperating System Mechanical	OP 1 OP 20G EM EMC: CE, FCC	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 peak acceleration, 11 ms (IEC IP65 fc Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6 AL has passed pre-compliance SEM Watchdog Tir Windows <sup>®</sup> 10 IoT Linux Ubur	co 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN60601-1-2:2015, UNECE R10 50601-1/61010-1/62368-1 testing of EMI, EMS, EMC, and IA 4.0 ner supported Centerprise x64 bit intu 20.04 LTS	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2</s>		
Operating Temperature Storage Temperature Humidity Vibration Shock IP Rating ESD EMC/Safety Compliance Software SEMA WDT Operating System Mechanical Construction	OP 1 OP 20G EM EMC: CE, FCC *SP2-/	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 peak acceleration, 11 ms (IEC IP65 fc Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6 AL has passed pre-compliance SEM Watchdog Tir Windows <sup>®</sup> 10 IoT Linux Ubur	co 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN 60601-1-2:2015, UNECE R10 50601-1/61010-1/62368-1 testing of EMI, EMS, EMC, and IA 4.0 ner supported Centerprise x64 bit intu 20.04 LTS	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2 Safety.</s>		
Environmental Operating Temperature Storage Temperature Humidity Vibration Shock IP Rating ESD EMC/Safety Compliance Software SEMA WDT Operating System Mechanical Construction Dimensions (W x L x D mm)	OP 1 OP 20G EM EMC: CE, FCC *SP2-/ 216 × 160 × 54.54 ± 2	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fc Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with 6 AL has passed pre-compliance SEM Watchdog Tir Windows <sup>®</sup> 10 IoT Linux Ubur	co 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock for front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN60601-1-2:2015, UNECE R10 50601-1/61010-1/62368-1 testing of EMI, EMS, EMC, and IA 4.0 ner supported Centerprise x64 bit htu 20.04 LTS GCC 383.56 x 232.99 x 65.1 ± 2	-20°C to 60°C axis <s asix<br="">032 , EN 50121-3-2 Safety. 517.46 x 309.19 x 67.6 ± 2</s>		
Operating Temperature Storage Temperature Humidity Vibration Shock IP Rating ESD EMC/Safety Compliance Software SEMA WDT Operating System Mechanical Construction	OP 1 OP 20G EM EMC: CE, FCC *SP2-/	-20°C to 70°C 10% t Grms, 5-500Hz w/ SSD, (IEC60 beak acceleration, 11 ms (IEC IP65 fc Air: ±15kV, C II: IEC/EN 61000-3-2, IEC/EN 6 EMS: EN 5503 Class B, IEC 60601-1-2:2014/f Safety: Compliant with ( AL has passed pre-compliance SEM Watchdog Tir Windows <sup>®</sup> 10 IoT Linux Ubur SC 249.66 x 168.3 x 64.4 ± 2 0.2kg	co 95% 068-2-64), X, Y, Z axes, 60 min/a 60068-2-64), ±X, ±Y, ±Z, 3 shock or front Contact: ±8kV 1000-3-3, EN 61000-6-4, EN 550 5, EN 61000-6-2, EN 60601-1-2:2015, UNECE R10 50601-1/61010-1/62368-1 testing of EMI, EMS, EMC, and IA 4.0 ner supported Centerprise x64 bit intu 20.04 LTS	-20°C to 60°C axis ks/asix 032 , EN 50121-3-2		

# 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 C	Core / NXP i.MX 8M Plus, ARM A53, 64-Bit, 1.6GHz, 4 Core	
1emory	2 GB (Default)	/ 4 GB & 8 GB (Optional)	
storage	320	GB eMMC 5.1	
Display and Touch			
lize	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	
/iewing Angle (U/D/R/L)		5/85/85	
ouchpoint		5 points	
ouch structure	(	Glass/Glass	
urface Hardness		7H	
urface Treatment		AG	
External I/O			
	1x CbE port P 1/15 connector	1G TSN, support wake on LAN, default	
Ethernet	1x GbE port, RJ45 connec	tor, support wake on LAN, optional SUSB 3.2 Gen1 (5Gbps) and 1x USB 2.0, Type A (Optional	
JSB Port	1x USB 2.0 /	Micro B OTG (default)	
DisplayPort		0p30 for display, 1920x1080p60 for Video	
Buttons		ery button, 1x wafer to support power button	
nternal I/O with Wire-to-B			
Serial Port		auto flow control (default) grammable, auto flow (Optional)	
2C		I2C client, wafer	
Audio (optional)	1x for 2x_stereo speaker (2 watts), 1x	x Mic-in (Mono) and Line-out (Stereo), 1x buzzer	
CAN		AN Bus, wafer	
M.2		key for WiFi/Bluetooth	
Expansion IO (Optional)		pps), 1x I2C, 1x SPI, 4GPI&4GPO	
Power	1X 050 5.2 dent (5de		
Power Input	12V/doFault	t) or 12-24V (optional)	
Power Connector		or 4-pin power connector (optional)	
Backup Battery		RTC battery	
Environmental	IA	Kie battery	
	0°C (0°C ( 20°C ( 0°C	0°C (0°C ( 20°C ( 0°C	
Operating Temperature	0°C ~ 60°C / -20°C ~ 60°C -20°C ~ 70°C	0°C ~ 60°C / -20°C ~ 60°C -20°C ~ 70°C	
Storage Temperature			
lumidity (ibachian		40°C, 95%	
/ibration		IEC60068-2-64) X, Y, Z axes, 60 min/axis	
Shock		n (Half-Sine), Pulse Duration: 11ms	
		2-27), ±X, ±Y, ±Z, 3 shocks/axes	
SD		kV, 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; EC 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 IEC 61000-6-2:2019 ; EN IEC 61000-6-2:2019 ; BS EN IEC 61000-6-4:2019 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). A	Android 13 (optional), Windows 10 (by demand)	
Mechanical		5000	
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	1) Danal Mounting 2	?) Rear cover 3) VESA bracket	

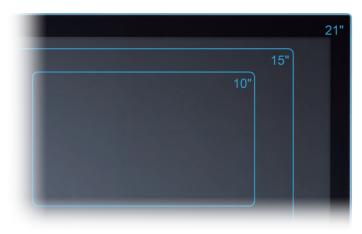
257.6 x 202.2 mm	
950g ± 28g	

# 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 1/0 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.



#### Narrow bezel and slim design

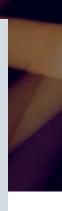
The slim, lightweight frame allows for effortless integration and installation into any application, improving cost efficiency while looking stylish.



### 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<sup>®</sup> Core™ processor



### STC2-AL

Industrial panel PCs powered by Intel Atom<sup>®</sup> processor E3950 series

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



Model	STC2-10WP-KL	STC2-15WP-KL	STC2-21WP-KL	
System				
Processor	7th Gen Intel <sup>®</sup> 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 1	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			
USB Polt	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		
rowei niput		OVP/UVP protection		
Power Consumption	40.9W 50.4W 64.1W			
Software				
WDT		Watch Dog Timer supported		
Operating System	Windows <sup>®</sup> 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			

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





Model	STC2-10WP-AL	STC2-15WP-AL	
System			
Processor	Intel Atom <sup>®</sup> x7-E3950 Processor		
Memory	4GB DDR3L default (up to 8GB)		
Storage	64GB S	SD default (up to 1TB)	
Display			
Size	10.1"	15.6"	
Resolution (Max.)	1280 x 800	1920 x 1080	
Aspect Ratio		16:9	
Brightness	40	00 nits (w/i touch)	
Backlight Life (Hrs)		50,000	
Viewing Angle (U/D/R/L)		89/89/89	
Contrast Ratio	800:1	1000:1	
Touchscreen	10-point, PC	AP, Anti-fingerprint coating	
I/O			
Ethernet	2	x GbE LAN, RJ45	
Serial Port		ports, RS-232/422/485	
		x USB 2.0, Type A	
USB Port		x 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 a	udio port (line out)	
Environmental			
Operating Temperature	-1	0°C to 50°C (SSD)	
Storage Temperature		-20°C to 60°C	
Humidity	10% to 80%	6 @ 40°C (non-condensing)	
Vibration	Operating	g: 1G random 5 to 500Hz	
Shock	Ор	erating: 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		ws <sup>®</sup> 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		



# **IP69K Stainless Steel Panel PC -Titan2** Series

The state-of-the-art Titan2 Series is designed for the toughest industrial environments. 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



#### 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.



### **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.

## **True Flat Monitor Stainless Steel Enclosure**

#### 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.



#### **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<sup>®</sup> Core<sup>™</sup> Processor

## 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

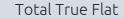


10-Point PCAP Touch



Wide Operating Temperature







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 <sup>®</sup> Core™ i5-1145G7E 1.5GHz 15W (4 Cores) Intel <sup>®</sup> Core™ i3-1115G4E 2.2GHz 15W (2 Cores)			
Memory		DDR4 up to 32 GB		
I/O Interface				
USB	1x M1	2 for 2x USB 2.0 (A-coded ) with waterproo	f cover	
Ethernet	1x M1	2 for 2.5GbE LAN (X-coded )with waterproo	fcover	
Serial Ports	1x M12 for RS-23	32/422/485 (default RS-232, A-coded) with	waterproof cover	
Power Input		1x M12 for DC power (T-coded)		
Expansion Slot		2 E-key 2230 (PCIe+USB2.0) for optional WI ey 3042 (USB2.0+USB3.2 Gen1) for optiona	1	
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 100x100/2	00 x 100(23.8") mm Mounting, Yoke/Pipe r	nount 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	Operatir	ng : 10 ~ 500 Hz, 1.87G for X, Y, Z (IEC 60068	3-2-64)	
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		



# **Embedded Box PCs** and Media Players

The perfect solution for the retail and infotainment industries, ADLINK's embedded computers and media p 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 scene

## Highlighted Features



### **Mesmerizing Video Graphics**

With Intel Iris<sup>®</sup> X<sup>e</sup> 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.

#### **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.



#### 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.

# **Product Series**



#### **EMP-510**

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



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

**EMP-100** 

#### Advanced Embedded Box PC (EMP-510)



Model		EMP-510 Series	
System Core			
Processor	Intel <sup>®</sup> Core™ i5-1145G7E	Intel <sup>®</sup> Core™ i3-1115G4E	Intel <sup>®</sup> Celeron <sup>®</sup> 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	-
Метогу	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 US	5B 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		

# Dual 4K Fanless Media Player (EMP-100)





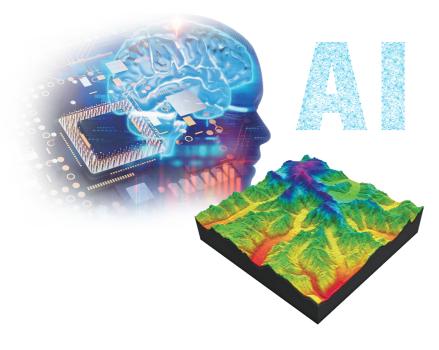
Model	EMP-100			
System Core				
Deserves	Intel <sup>®</sup> Celeron <sup>®</sup> N6210 processor, Dual-core, 1.2GHz, 6.5W			
Processor	Intel® Celeron® J6412 processor, Quad-core, 2.0GHz, 10W			
GPU	Intel® Gen 11 Graphics			
Memory	1 x 260-pin DDR4 SO-DIMM, supports 3200MHz SDRAM up to 16GB			
ТРМ	Integrated TPM 2.0			
I/O Interface				
USB	3 x USB 3.2 Gen.1 (Type-A)			
LAN	1 x GbE LAN (RJ-45)			
	1 x HDMI 2.0, Maximum resolution 3840x2160 @ 60Hz 1			
Display Output	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 × 107 × 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			



# **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



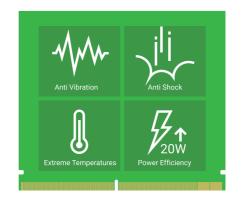
#### Compact, durable, and power-efficient MXM GPU modules

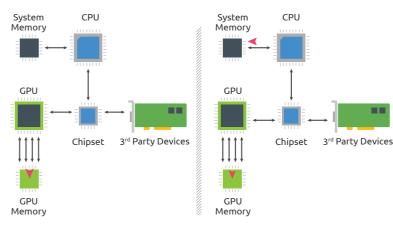
A mere one-fifth the size of PCIe graphics cards, ADLINK's MXM GPU modules minimize the footprint of the host system. The modules are designed to withstand the harsh physical conditions of an industrial environment, including vibrations, shocks, and extreme temperatures. ADLINK's MXM GPU modules are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

#### Accelerated rendering, AI, graphics, and computing performance

● **##**\$##\$\$ 852\$#;\*\* #\*

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





Dataflow with NVIDIA GPUDirect<sup>™</sup> RDMA

Dataflow without NVIDIA GPUDirect RDMA

#### High bandwidth and reduced I/O latency

**PCIe 4.0** SUPPORT

PCIe 4.0 support offers high bandwidth connection for dataintensive applications. With GPUDirect<sup>®</sup> 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





#### 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	4x DisplayPort 1	.4a, HDMI 2.1, 4K at 120Hz or 8K at 60Hz with 1	0-bit color depth		
Interface	MXM 3.1, PCle 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) × 105	(D) × 4.8 (H)		
Form Factor	Standard MXM 3.1 Type A	Standard MX	М 3.1 Туре В		
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				
		1			
SW Support					

#### 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					
	2048 CUD/	A Cores	2560 CUDA cores	5888 CUDA cores	
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 (	16 RT Cores 20 RT Cores		46 RT Cores	
Compute API	CUDA Compute 8.0 and above, OpenCL™ 1.2				
Graphics API	DirectX <sup>®</sup> 12, OpenGL 4.6				
Display					
Display Outputs	N/A		4x DisplayPort 1.4, HDMI 2.1* 4K a 120Hz or 8K at 60Hz	at	
Interface	MXM 3.1, PCle 4.0 x4 support MXM 3.1, PCle 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) mn	
Form Factor		Standard MXM 3.1 Type A		Standard MXM 3.1 Type B	
Environmental		Standard: 0°C to 55°C Extended Temperature: : -20°C to 70°C			
Environmental Operating Temperature					
Operating Temperature			ture: : -20°C to 70°C		
Operating Temperature Storage Temperature	40W TGP	Extended Tempera	ture: : -20°C to 70°C 85°C	80W or 115W TGP	
	40W TGP	Extended Tempera -40°C to	ture: : -20°C to 70°C 85°C	80W or 115W TGP	







#### Embedded MXM GPU Modules (NVIDIA Turing™ Architecture)

### PCIe-to-MXM adapter



Model	EGX-MXM-T1000	EGX-MXM-RTX3000	EGX-MXM-RTX5000
Graphic Core			
GPU	Quadro <sup>®</sup> T1000 Quadro <sup>®</sup> RTX3000		Quadro <sup>®</sup> RTX5000
Метогу	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,1920 CUDA cores,2.6 TFLOPS5.3 TFLOPSPeak FP32 performancePeak 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	CL	CUDA Toolkit 8.0 and above, JDA Compute version 6.1 and above, OpenCL™	1.2
Graphics API	DirectX <sup>®</sup> 12, OpenGL 4.6, Vulkan 1.0 API		
Display			
Display Outputs	4x Display	Port 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		



	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 sSystem	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		



#### Embedded MXM GPU Modules (Intel<sup>®</sup> Arc™ MXM-AXe)

# Professional Graphics Solutions (NVIDIA Ampere Architecture)





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



Model	NVIDIA RTX A2000	NVIDIA RTX A4000	NVIDIA RTX A5000	NVIDIA RTX A6000	
Graphic Core					
Graphic Architecture	NVIDIA <sup>®</sup> Ampere™ GA106 NVIDIA <sup>®</sup> Ampere™ GA104 NVIDIA <sup>®</sup> 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		Y	es		
GPGPU Computing					
CUDA Cores	3,328 CUDA <sup>®</sup> cores, 8.0 TFLOPS SP Peak	6,144 CUDA <sup>®</sup> cores, 19.2 TFLOPS SP Peak	8,192 CUDA <sup>®</sup> cores, 27.8 TFLOPS SP Peak	10,752 CUDA <sup>®</sup> 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 × 10.	5" L, dual slot	
Form Factor			Full height, full length NVID	IA Form Factor 5.0 compliant	
Environmental					
Operating Temperature	0°C t	o 50°C	0°C to	o 45°C	
Storage Temperature		-40°C t	to 75°C		
Module Power Consumption	70W	140W	230W	300W	
SW Support					
Operating System		Windows 10 & Linux	drivers, 64-bit		







ngle slot	4.4" H x 10.5" L, dual slot		
	Full height, full length NVID	IA Form Factor 5.0 compliant	
	0°C te	o 45°C	
-40°C to 75	5°C		
	230W	300W	

#### Portable GPU - Pocket AI (NVIDIA Ampere Architecture)

# Professional Graphics Solutions (NVIDIA Turing™ Architecture)



	EGX-TBT-A500	
GPU Architecture	NVIDIA Ampere GA107	
CDU de de	Base clock: 435 MHz	
GPU clock	Boost clock: 1335 MHz	
CUDA Cores	2,048	
VIDIA Tensor Cores	64	
VVIDIA 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	
rGP	25 W*	
nterface	Thunderbolt™ 3.0 (PCI Express 3.0 x 4)	
	Without Protective Case 106mm x 72mm x25mm	
Dimensions	With Protective Case 110mm x 76mm x32mm	
Neight	250g	
VVENC   NVDEC	1x   2x	
Dperating 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.



Model	NVIDIA T1000	NVIDIA T1000E-8GB	
Graphic Core			
Graphic Architecture	NVIDIA <sup>®</sup> 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	4	
GPGPU Computing			
CUDA Cores	896 CUDA <sup>®</sup> 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 <sup>®</sup> 10 & Lin	ux drivers, 64-bit	





# Professional Graphics Solutions (NVIDIA Turing™ Architecture)

Model N

# Professional Graphics Solutions (Intel® Arc™ PCIe)



NVIDIA T400E

NVIDIA T600E

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

Graphic Core				
Graphic Architecture	NVIDIA <sup>®</sup> 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 <sup>®</sup> cores, 1.09 TFLOPS Peak FP32 Performance		640 CUDA <sup>®</sup> cores, 1.7 TFLOPS Peak FP32 Performance	
Compute API	CUDA Toolkit 8.0, CUDA Compute version 6.1, OpenCL <sup>™</sup> 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 <sup>®</sup> 10 & Linux drivers, 64-bit			

NVIDIA T400 4GB

X Cores	
Render Slices	
Ray Tracing Units	
XMX Engines	
Support Technology	
Display	
Display Outputs	
Interface	
Mechanicals	
Dimensions	
Form Factor	
Environmental	
Operating Temperature	
Storage Temperature	



### Manufacturing



Machine Control

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**Recommended Products** 

time-to-market.

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Embedded MXM GPU modules







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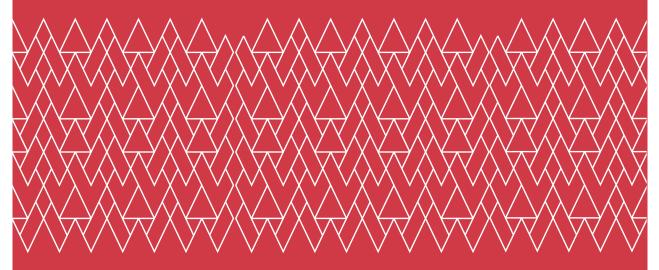
Self-Pickup Kiosks





### Professional **Graphics Solutions**

PCI express graphics cards



#### ADLINK Technology, Inc.

No. 66, Huaya 1st Rd., Guishan Dist. Taoyuan City 333411, Taiwan 333411 桃園市龜山區華亞一路 66 號 Tel:+886-3-216-5088 Fax: +886-3-328-5706 Email: service@adlinktech.com

Ampro ADLINK Technology, Inc. 6450 Via Del Oro, San Jose, CA 95119, USA Tel: +1-408-360-0200 Toll Free: +1-800-966-5200 (USA only) Fax: +1-408-600-1189 Email: info@adlinktech.com

#### ADLINK Technology Singapore Pte, Ltd.

84 Genting Lane #07-02A, Axxel Innovation Centre, Singapore 349584 Tel: +65-6844-2261 Email: singapore@adlinktech.com

#### ADLINK Technology Singapore Pte. Ltd. (Indian Liaison Office)

ABO 36, PHS F1007, Spearnead Towers, Ma Road (between 16th/17th Cross), Malleswaram, Bangalore - 560 055, India Tel: +91-80-42246107, +91-80-23464606 Fax: +91 80 23464606 Email: india@adlinktech.com

#### ADLINK Technology Japan Corporation

〒 101-0045 東京都千代田区神田鍛冶町 3-7-4, KDX 神田駅前ビル 4F KDX Kanda Ekimae Bldg. 4F, 3-7-4 Ka<u>nda Kajicho,</u> Chiyoda-ku, Tokyo 101-0045, Japan Tel: +81-3-5209-6001 Fax: +81-3-5209-6013 Email: japan@adlinktech.com

#### ADLINK Technology Japan Corporation (Nagoya office)

です450-0002 愛知県名古屋市中村区名駅 5-31-10 リンクス名駅ビル 3F LINKS Meieki Bldg. 3F, 5-31-10 Meieki, Nakamura-ku, Nagoya-city, Aichi 450-002, Japan Tel: +81-52-589-9018 Fax: +81-52-583-2807 Email: japan@adlinktech.com

#### ADLINK Technology Korea Ltd.

경기도 용인시 수지구 신수로 767 A 등 1503 호 (동천동, 분당수지유타워)(우)16827 Toll Free: +82:80-800-0585 Tel: +82:31 786-0585 Fax: +82:31 786-0583 Email: korea@adlinktech.com

### ADLINK Technology (China) Co., Ltd. 上海市浦东新区张江高科技园区芳春路 300 号 (201203) 300 Fang Chun Rd., Zhangjiang Hi-Tech Park, Pudong New Area, Shanghai, 201203 China

Tel: +86-21-5132-8988 Fax: +86-21-5192-3588 Email: market@adlinktech.com

#### ADLINK Technology Beijing

北京市海淀区上地东路 1 号盈创动力大厦 E 座 801 室 (100085) Beijing, 100085 China Tel: +86-10-5885-8666 Fax: +86-10-5885-8626 Email: market@adlinktech.com

## ADLINK Technology Shenzhen

深圳市南山区科技园南区高新南七道数字技术园 A1 栋 2 楼 C 区 (518057) 2F, C Block, Bldg. A1, Cyber-Tech Zone, Gao Xin Ave. Sec. 7 High-Tech Industrial Park S., Shenzhen, 518054 China Tel: +86-755-2643-4858 Fax: +86-755-2644-6353

#### ADLINK Technology, Inc.

(Israel Liaison Office) MIXER Herzliya (Building B, 9 Floor) 3 Arik Einstein st. Zip code 4610301, Herzliya, Israel P.O.Box - 351 Tel: +972-54-632-5251 Fax: +972-77-208-0230 Email: israel@adlinktech.com

#### f in 🎔 www.adlinktech.com

#### ADLINK Technology GmbH

Hans-Thoma-Straße 11, 68163 Mannheim, Germany Tel.: +49 621 43214-0 Fax: +49 621 43214-30

Ulrichsberger Str. 17 94469 Deggendorf, Germany Tel: +49 (0) 991 290 94-10 Fax: +49 (0) 991 290 94-29 Email: info.deg@adlinktech.com

#### ADLINK Technology SARL

Bâtiment Thalès – Parc des Algorithmes, Route de l'Orme des Merisiers, 91190 Saint-Aubin, France Tel: +33 (0) 1 60 12 35 66 Fax: +33 (0) 1 60 12 35 66 Email: france@adlinktech.com

#### ADLINK Technology, Inc. (UK Liaison Office)

First Floor West Exeter House, Chichester Fields Business Park Tangmere, West Sussex, PO20 2FU, United Kingdom Tel: +44-1243-859677









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