ACT POWER TAIWAN CO., LTD.

TOGETHER
BEYOND
THE
SUMMIT

SUSTAINABLE DEVELOPMENTAL PLAN

ACT POWER is committed to being one of the leading technology service providers around the world. We are constantly looking for opportunities to create value for customers and create mutual prosperity and mutual benefits.

SOCIAL RESPONSIBILITY & ENVIRONMENTAL POLICY

We are committed to maintaining ecological balance, promoting corporate social responsibility, promoting green production, actively participating in charity activities, paying attention to vulnerable groups, promoting the physical and mental health and safety of employees, and creating an open business stage for talents to fully develop.

TOGETHER BEYOND THE SUMMIT

Dear valuable partners,

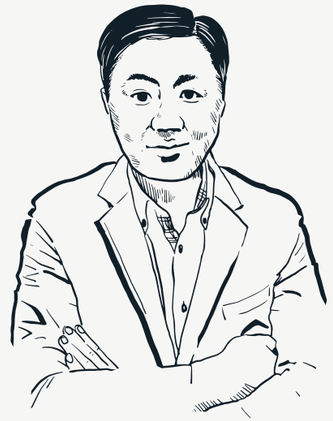
It is with great pleasure and pride as the CEO of our company that I address you today. Over the years, we have overcome numerous challenges and accomplished significant milestones to become a leading player in our industry. However, we acknowledge that our journey does not end here, and we must continue to strive for excellence.

Therefore, I am thrilled to announce our new company-wide initiative, "Together Beyond the Summit." This initiative is focused on promoting teamwork and collaboration. We strongly believe that by working together, we can achieve greater heights and overcome any obstacles that we may face. Our commitment to supporting each other, sharing knowledge, and striving for excellence remains resolute.

Beyond being a mere slogan, "Together Beyond the Summit" represents our values, beliefs, and philosophy. We aim to foster a culture of innovation, collaboration, and teamwork that will propel our company forward for years to come.

I encourage all of you to join us on this journey towards greatness. Let us work together, embrace the spirit of collaboration, and attain our goals. We believe that with collective effort and a determination to succeed, we will reach even greater heights.

Thank you for your continued support and dedication to ACT Power Taiwan Co., Ltd.



President

Li-kuo, TSAI

CORPORATE INFORMATION

HISTORY & BACKGROUND

Welcome to ACT POWER, a company specializing in IPC and IOT fields, was established in 2009. In 2016, we underwent a rebranding process to update our corporate logo and convey our values of intelligence, creativity, professionalism, and modernism. Our mission is to provide comprehensive customization services in these fields.

As we enter 2023, we are excited to announce our new corporate identity and slogan, "Together beyond the summit." We believe that artificial intelligence (AI) is the key to creating more opportunities and bridging the gap between A and A+ excellence. With this belief, we are committed to incorporating AI features into our upcoming innovations.

To support our rapid growth, we are proud to announce that ACT POWER will have its own dedicated Validation Center. This will provide us with the resources we need to continue to innovate and exceed expectations. We are excited to continue on our journey of growth and excellence, and we invite you to join us "together beyond the summit."

2009
ACT POWER TAIWAN HEADQUARTERS

R&D /
Marketing /
Sales /
Global Support

2016
KEPRO INTERNATIONAL GROUP

Molding /
Product Manufacturing /
Product Validation /
ISO9001 & ISO14001

2017
SZ HODOO TECHNOLOGY

R&D /
Sales in China Area /
Service Center in China

2018
CHARE TECH

Sales /
Assembly (Make in India) /
Service Center

WE MAKE PRODUCTS THAT MEET YOUR NEEDS!

ACT POWER was created by a group of experienced engineers and marketing planners who have been in the industrial PC sector for many years. More than just production and sales, our company specializes and takes pride in customized design services, and unique marketing ideas in the technology industry.

ACT POWER offers DTOS (Design To Order Service) and OEM/ODM services, tailoring products to customers' requirements and assisting clients in the selection of the most cost-effective customized solution. Our comprehensive product lines include Mini PCs, Fanless Industrial Computers, and Imaging Automation products, among others. One of the keys to our success is our flexibility and dedication to meet the exact needs of our customers, from one-off configuration to large production.

CORE VALUE

At ACT POWER, we believe in the importance of sharing knowledge for personal and business growth. Our passion for fostering partnerships with clients is fueled by our core values of partnership, professionalism, innovation, and integrity. We are committed to providing our partners with resources and open communication to ensure mutual success. Our dedication to innovation drives us to develop cutting-edge products that meet the dynamic needs of modern businesses.

With comprehensive quality control, clients can rely on us for long-term cooperation in pursuit of their goals. Our ultimate measure of success is the success of our clients, and we invite you to join us on a journey of partnership, innovation, and integrity towards new heights of success.

TOGETHER BEYOND THE SUMMIT

Teamwork and collaboration to achieve a difficult or ambitious goal.

It implies that by working together, we can overcome obstacles and reach new heights that we might not be able to achieve alone.

VISION & MISSION

At ACT POWER, we are committed to providing our clients with the latest innovations in the IPC industry, and beyond. Our vision is to expand our expertise and knowledge to the web services industry, recognizing the growing importance of IoT in daily life. We are dedicated to contributing to this field, now and in the future, by developing intelligent solutions for business associates, using smart materials in meeting rooms, boardrooms, classrooms, lounges, and public areas. Our goal is to make life simpler and more convenient for our users, allowing them to easily control and manage their environment through their watch, phone, tablet or PC.

Our products will provide seamless automation of daily tasks, from dimming lights to turning audio/video devices on or off, opening or closing projector screens and curtains, or making presentations. Our easy-management interface is designed to be user-friendly for everyone, not just those in the tech industry, making our solutions accessible to all. At ACT POWER, we are driven by our mission to simplify life and enhance productivity for our clients through innovative and intelligent solutions.

PROVIDE THE BEST QUALITY WITH FULL DEDICATION

ORGANIZATIONAL STRUCTURE

VALIDATION & QUALITY CONTROL
- Chief Technology Officer
- Quality Manager

R&D TEAM
- CTO
- Mechanical Design
- Professional Audio & Video
- Data Module
- Digital Signage
- DTOS

PRODUCTION DEPT.
- Production Director
- Production Manager
- FAE / RMA Engineer
- Sourcing
- Metal Manufacturing
- Plastic Manufacturing
- SMT Manufacturing

ADMINISTRATION DEPT.
- CFO / COO
- Accountant
- Assistant Administrator

PRODUCT DEVELOPMENT & MANAGEMENT DEPT.
- Director
- Project Sales Manager
- Project Manager
- Project Engineer
- P-Trade & Sourcing

SALES AND MARKETING DEPT.
- Sales Manager
- Junior Sales
- Marketing Specialist

PRODUCT AND SERVICE

ACT POWER provides global system integration and startup partners with high-efficiency Design-to-Order services, allowing them to reduce the risks associated with new system development. Our professional design team in Taiwan works closely with partners to determine product specifications, configurations, and platform integrations. With a low entry development fee, we make it easy for partners to take advantage of our expertise and bring their innovative ideas to life.

1 Pilot Run & Approval

Defining product Specifications and requirements.
Initial prototype quotation and delivery schedule.

2 Design & Development

Design and development of prototype.

3 Product Requirement & Product Spec

Benchmark and functionality tests.
Customer evaluation.
Purchase order.

4 Mass Production

Batch manufacturing.
Burn-in and functional tests.

5 Service & Support

Logistics services.
After-sale support.

HOUSING DESIGN

PACKAGE

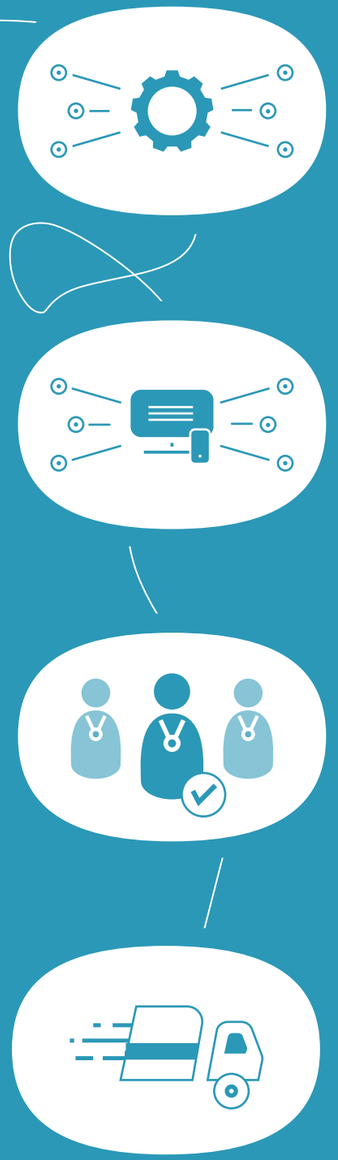
A	B	C
Full Service	Professional Service	Elite Service
• ID Design • 3D Drawing Creation • Mock Up Sample Creation • Tooling Creation • Sample Production • Pilot Run Production • Mass Production	Customer offers its ID design and we offer all contents in Package A but ID Design	• ID Design • 3D Drawing Creation • Mock Up Sample Creation • Tooling Creation • Sample Production • Pilot Run Production • Mass Production
can be completed from ID Design to Mass Production in 90 Days	can be completed from 3D Drawing Creation to Mass Production in 60 Days	can be completed from Mock Up Sample Creation to Mass Production in 45 Days

BROAD DESIGN

PACKAGE

A	B	C
x86 board design from current product	x86 board design as new product	embedded SoC board design service
• Schematic and Gerber • Bill Of Materials List • Production Guide • Production Service	• Product Specification Draft from customer demand • System block diagram • Schematic and Gerber • Bill Of Materials List • Production Guide • Production Service	• Development board and SDK service • Production Specification Draft from customer demand • System block diagram • Schematic and Gerber • Bill of Materials List • Production Guide • Production Service
This service can be completed from schematic to production in 45 days	This service can be completed from Product Specification Draft to Production in 90 days	can be completed from Mock Up Sample Creation to Mass Production in 45 Days

FEATURES & ADVANTAGES



HARDWARE INTEGRATION

- ✓ **Special Boards**
- ✓ **Multiple Hard Drives**
- ✓ **Dc And Special Power Inputs**
- ✓ **Custom Chassis Designs**

SOFTWARE INTEGRATION

We can install and manage standard or customer's proprietary software

PERSONALIZATION

Build your own brand by providing your product in custom colors or simply add brand logo

FAST DELIVERY

We provide full and consolidate container base on customer's different shipment quantity with a variety of transport shorten the shipping process.

CUSTOMER SUPPORT AND SERVICE INFORMATION

RMA (Return Merchandise Authorization)

STEP 1 — The customer submits an RMA request.

STEP 2 — Checvk the warranty status.

* Our company's product warranty period is one year. If the product is not within the warranty period, fees may be charged at our discretion.

STEP 3 — Assist the customer in completing the RMA request form and issue an RMA No. for the customer to return the RMA item.

STEP 4 — After receiving the RMA item, it will be handled by our professional RMA department for repair.

STEP 5 — After the product has been repaired, the RMA department will provide an RMA report explaining the cause of the fault and the repair details for the specific RMA case.

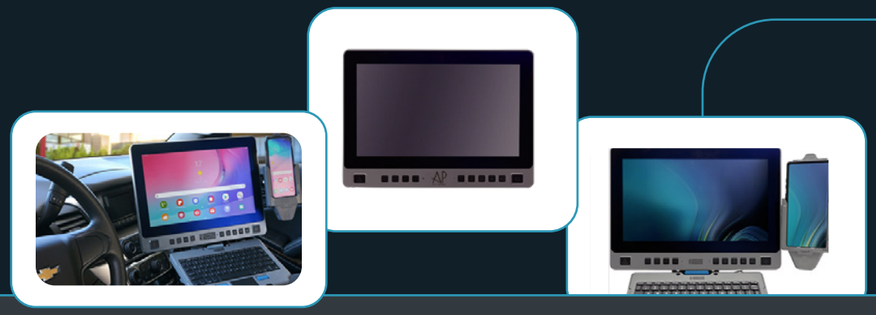
STEP 6 — The after-sales service unit is responsible for contacting the customer and arranging for the return of the product and subsequent quality confirmation matters.

STEP 7 — Ensure that the RMA item functions properly after repair.

STEP 8 — Close the RMA case.

SUCCESS STORIES

2017-2022



2019 13.3″ Rugged Monitor

Rugged and Ergonomic Mobile Workstation
Transitions seamlessly from the vehicle to the office space
From Concept to total solution.

Day1- RFQ	Day8- Proposal	Day22- Sample	Day1- Customer Validation Completed	Ship 25 Units	Ship 50 Units	Ship 50 Units	Ship 100 Units	Ship 425 Units
Stage1			Stage2	1st	2nd	3rd	4th	Total

2017 Fingbox

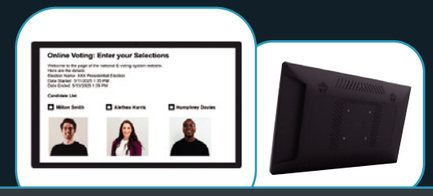
Network Security and Troubleshooting
Fingbox is the digital caretaker that watches over your network to detect intruders, block devices and analyze the quality of your Wi-Fi and Internet connection.

Day1- RFQ	Day8- Proposal	Day22- Sample	Day1- Customer Validation Completed	Day9- Ship 18,000 Units	Ship 6,000 Units	Ship 10,000 Units	Ship 5,000 Units	Ship 40,000 Units
Stage1			Stage2	1st	2nd	3rd	4th	Total

2020 8″ Rugged Monitor

The display is compatible with the Samsung DEX system ecosystem, thereby offering a highly economical, ruggedly sturdy, and ergonomically designed safe mobile workstation experience.

Day1- RFQ	Day8- Proposal	Day22- Sample	Day40- Customer Validation Completed	Ship 325 Units	Ship 56 Units	Ship 56 Units	Ship 56 Units	Ship 564 Units
Stage1			Stage2	1st	2nd	3rd	4th	Total



2021 21.5″ Tablet with Battery Support

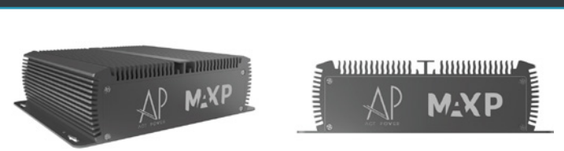
Voting Tablet with Kiosk Application
Efficient and customized solutions for elastic application.
E-solution is part of people's life. In May 2022, there are more than 254,000 voters participated in the Histadrut Election in Israel. ACT POWER provided about 2,500 units of 21.5″ tablet for this voting event.

Day1- RFQ	Day8- Proposal	Day22- Sample	Day40- Customer Validation Completed	Day39- Ship 800 units	Day48- Ship 1,100 untis	Day55- Ship 550 untis
Stage1			Stage2			

2022 Rugged Box PC

Description: With its field-proven thermal design, significant CPU and I/O upgrades, the ISY-B00D-M series fits your need for ruggedness, performance, and versatility for a variety of applications.

Day1- RFQ	Day3- Proposal	Day30- Sample	Day1- Customer Validation Completed	Day40- Ship 50 Units	2nd Ship 150 Units	Ship 800 Units
Stage1			Stage2	1st	2nd	3rd



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PRO AV

TOGETHER
BEYOND
THE
SUMMIT

ACT

SUSTAINABLE DEVELOPMENTAL PLAN

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PROFESSIONAL ProAV EQUIPMENT / 01

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ACTUAL CASE / 08

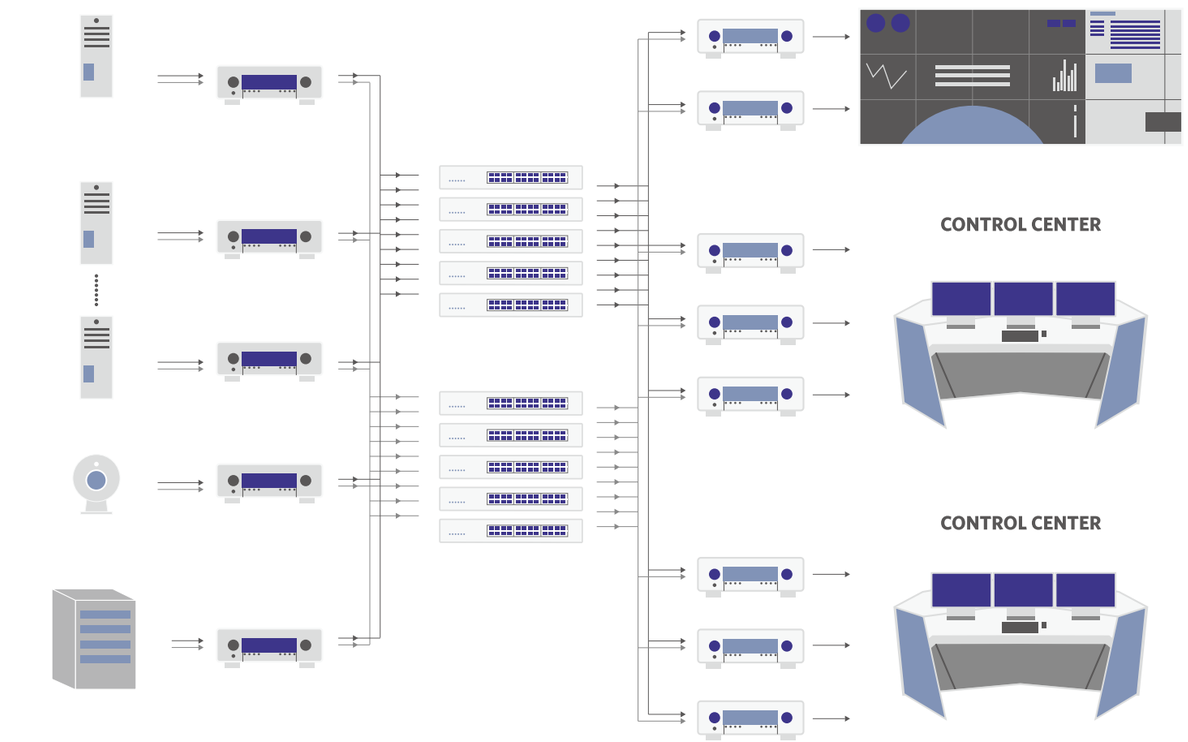
WE MAKE PRODUCTS
THAT MEET YOUR NEEDS

WHAT IS ProAV

ProAV is commonly used in various industries such as commercial, education, government, entertainment, etc., providing high-quality and reliable audio and video equipment and services.

PROFESSIONAL ProAV EQUIPMENT

ProAV systems require professional audio and video equipment, including sound systems, displays, projectors, cameras, encoders, decoders etc. We mainly provide professional encoders, decoders and switches with various functions to meet these requirements.



ProAV

In addition to industries such as commercial, education, government, and entertainment, ProAV has many other applications.

For example, it can be applied in the medical field for capturing, storing, and playing medical images and videos; in the transportation field for monitoring, recognizing, and recording traffic flow, vehicle trajectories, and other information; and in the security field for video surveillance, intrusion detection, access control systems, etc. Furthermore, ProAV can also be used in cultural heritage preservation, virtual reality, and other fields to provide applicable audio and video solutions for various professional needs.

SERVER ROOM &
CONTROL ROOM

MORE THAN
ONE SCREEN

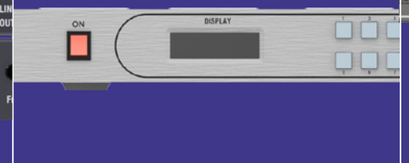
SPLIT ONE SCREEN
FOR HOSTS

1

ENCODER / DECODER

Encoders are widely used in the fields of audio and video transmission, digital communication, digital storage, etc. They can improve the transmission and storage efficiency of digital signals, reduce transmission and storage costs, and also ensure the quality and reliability of digital signals.

2

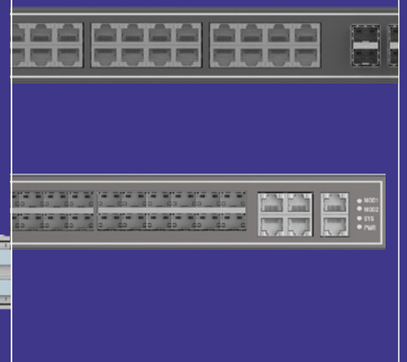


MULTIVIEWER

Viewing multiple data sources or video sources through MultiViewer can increase efficiency and productivity. For example, an editor can use multiple windows to view multiple video sources, allowing for better decision-making during the video editing process. Similarly, a data analyst can use multiple windows to view multiple data sources, enabling better understanding of the data and development of better strategies.

HDMS

3



Users can easily construct multi-to-multi environments, execute multi-functional matrix functions, configure video walls, KVM applications, set up groups, scenario mode settings, monitor screens, and more. This is used in applications such as high-definition real-time transmission and interactive integrated control functions in broadcasting systems, exhibition centers, data center extensions, and other scenarios.

1 ENCODER / DECODER

PAV-T1001/PAV-T1002
PAV-T4301/PAV-T4302

PAV-R1001/PAV-R1002
PAV-R4301/PAV-R4302

SPECIFICATION DESCRIPTION

- Resolution 3840x2160P30 or 1920x1080 or 1920x1200
- 1 Frame Latency
- Support Audio Transfer, IR, USB 2.0, HID, RS232, GPIO, etc.
- Support KVM control, grouping and authorization
- Support Cross-platform operation and mouse roaming
- Support Hot-swap
- Long distance signal transfer–CAT6, 180m; fiber, 100km.

PAV-T4602/PAV-T4603

PAV-R4602/PAV-R4603

SPECIFICATION DESCRIPTION

- Up to 4K60 - 444 Display Resolution
- USB Pass - thru
- Support KVM over IP
- 1 frame latency
- Gigabit Network
- 4 : 4 : 4
- POE Optional
- Support Tx Grouping and Authorization
- MJPEG Preview
- Support HDCP 2.2

MODEL COMPARISON

ENCODER / DECODER

MODEL	FHD	4K30	4K60
MODEL	PAV-T1001 / PAV-T1002 PAV-R1001 / PAV-R1002	PAV-T4301 / PAV-T4302 PAV-R4301 / PAV-R4302	PAV-T4602 / PAV-T4603 PAV-R4602 / PAV-R4603
RESOLUTION	1920 x 1080	3840 x 2160 P30	3840 x 2160 P60
HDMI	1.4a input	2.0a input	2.0b input
HDCP	1.4 2.2 (Optional)	1.4 2.2 (Optional)	2.2 (Compatible 1.4)
MOUSE ROAMING	Support		
IR FREQUENCY	30K to 50K		
RS232 SPEED RATE	300 to 115200 bps		
GPIO OUT	2 (0-3.3V)		
GPIO IN	1 (0-3.3V)		
NETWORK	1G / RJ45 Suggest CAT5E, CAT6, CAT7 cable	1G / RJ45 Suggest CAT5E, CAT6, CAT7 cable (POE Optional)	1G / RJ45 Suggest CAT5E, CAT6, CAT7 cable (POE Optional)
FIBER	Optional	Optional	Optional
POWER	DC 5-19V / 8W Without USB & Module Power Supply		
MODULE POWER OUT	5V / 500mA		
STORAGE TEMPERATURE	-30 to 70°C		
WORKING TEMPERATURE	-10 to 60°C		
SIZE	220x102x30 mm	220x102x30 mm	225x118x31 mm
WEIGHT	540g (Standard)	540g (Standard)	580g (Standard)

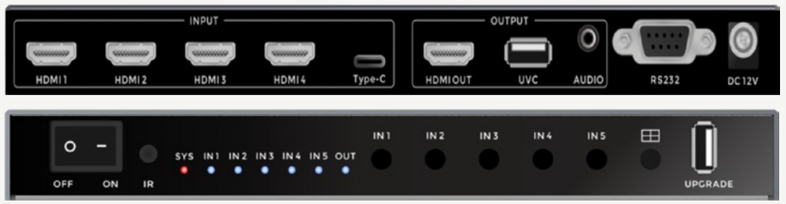
2 MULTIVIEWER

PAV-V9301

SPECIFICATION DESCRIPTION

- 9 HDMI Inputs to HDMI Output
- Control through RS-232 or RJ45
- Customized Display mode. E.g., Picture-in-picture, Independent Display, Windows overlap or stacking, Roaming, Free Size, Free Positioning
- Free setting for 1, 2, 3, 4, 6, 8, 9 Display Segmentation
- Seamless Switch
- Independent Display Button Switch
- Maximum 16 modes save in devices
- Support Max. 1920x1080 Input, Compatible 800x600, 1024x768, 1280x1024, 480i/p, 576i/p, 720p, 1080i/p
- Support Max. 3840x2160 Output. Customized Output 1920x1080, 1680x150, 1600x1200, 1400x900, 1366x768, 1280x1024, 1280x720, 1024x768
- Support Transparency Adjustment
- Support Customized Mode Looping

PAV-V5601



SPECIFICATION DESCRIPTION

- One display screen can simultaneously view four signals, greatly improving efficiency.
- Point-to-point display, no loss of frame rate, supports 4K60 UHD input and output.
- Supports control methods such as buttons/IR/RS232.
- Supports seamless and rapid switching between five signals.
- Supports direct input of multiple signals into software conferencing and live broadcasting software.
- The four screens can be defined to display in a customized way.

MODEL COMPARISON

MULTIVIEWER

MODEL	PAV-V9301	PAV-V5601
INTERFACE	Input — HDMI x9 (HDMI1.4a, DVI1.0) Output — HDMI x1 Other I/O — RS-232, RJ45 x1	Input — HDMI x4 (HDMI2.0) Type-C x1 Output — HDMI x1 UVC x1 Other I/O – RS-232, Analog Audio x1
BUTTONS	Panel Button x12 Power Button x1	Panel Button x6 Power Button x1
LED INDICATOR	HDMI input Button x9 Setting Button x3 HDMI Status x9 LED Display Panel x1	SYS x1 HDMI Status x4 Type-C Status x1 Output x1
RESOLUTION	Output Max. 3840 x 2160	3840 x 2160 P60
STORAGE TEMPERATURE	-40 to 70°C	-20 to 70°C
WORKING TEMPERATURE	-15 to 55°C	0 to 45°C
HUMIDITY	5 to 90% (non-condensing)	10 to 90% (non-condensing)
POWER	100V-240V AC	12V 1.5A DC
WEIGHT	3.1 kg	0.7 kg
DIMENSION	445 x 360 x 45 mm 482 x 360 x 45 mm (with Mounting)	240 x 124 x 28 mm

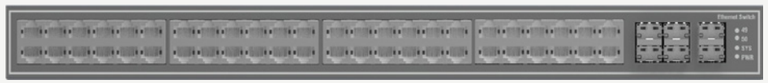
3 HDMS

PAV-W2601

PAV-W2801

PAV-W3001

PAV-W5201



PAV-W5401

SPECIFICATION DESCRIPTION

- Support 4K transmission
- Support KVM and Video Wall Setup
- Support up to 32 control boxes, with total 1536 ports
- Smart Transmission Control
- Support Telnet, http and RS-232 – 2nd Development
- Low Latency(Mouse, Video, Audio)
- Visual Lossless Compression
- Mouse Roaming(Windows, Linux, Mac)

MODEL COMPARISON

HDMS

Model	PAV-W2601	PAV-W2801	PAV-W3001	PAV-W5201	PAV-W5401
RJ45(10/100/1000M)	24	24	/	48	/
SFP (100/1000M)	2	4	24	/	48
COMBO 1G PORT	X	4 (SFP)	6(CU)	4(SFP)	6(CU)
SFP+ 10G	n/a	2			
10G EXTENSION CARD (SFP+*2)	n/a	1			
CONSOLE(RS232)	RJ45	DB9			
BACKPLANE BANDWIDTH	56 Gbps	128 Gbps		176 Gbps	
REAL TIME PREVIEW	Yes				
UP-PORT TRANSFER CONTROL	Yes				
EXTENSION LIST	Yes				
LLDP (CONNECTED DEVICES)	Yes				
IGMP SNOOPING	Yes				
SNMP SETTING	Yes				
RSTP PORT STATUS	Yes				
TRANSFER VOLUME MONITOR AND ANALYSIS	Yes				
NETWORK CABLE DISTANCE DETECTION	Yes				
CLI (THIRD PART CONTROL)	RS232 / Telnet / HTTP				
MANAGE MODE					
DIMENSION (MM)	442x223x44	442x250x44	442x300x44		
WEIGHT	2.5 kg	3.9 kg	4.1 Kg	4.2 kg	4.0 kg
POWER	100-240 VAC 50~60 Hz				

WHY SHOULD SITUATION ROOMS CHOOSE ProAV

?

ProAV is widely used in situation rooms to provide high-quality, reliable audio and video solutions for mission-critical operations.

Situation rooms are often used by organizations such as government agencies, military organizations, and emergency response teams to monitor, analyze, and respond to events in real-time. These events could include natural disasters, terrorist attacks, or other emergency situations.

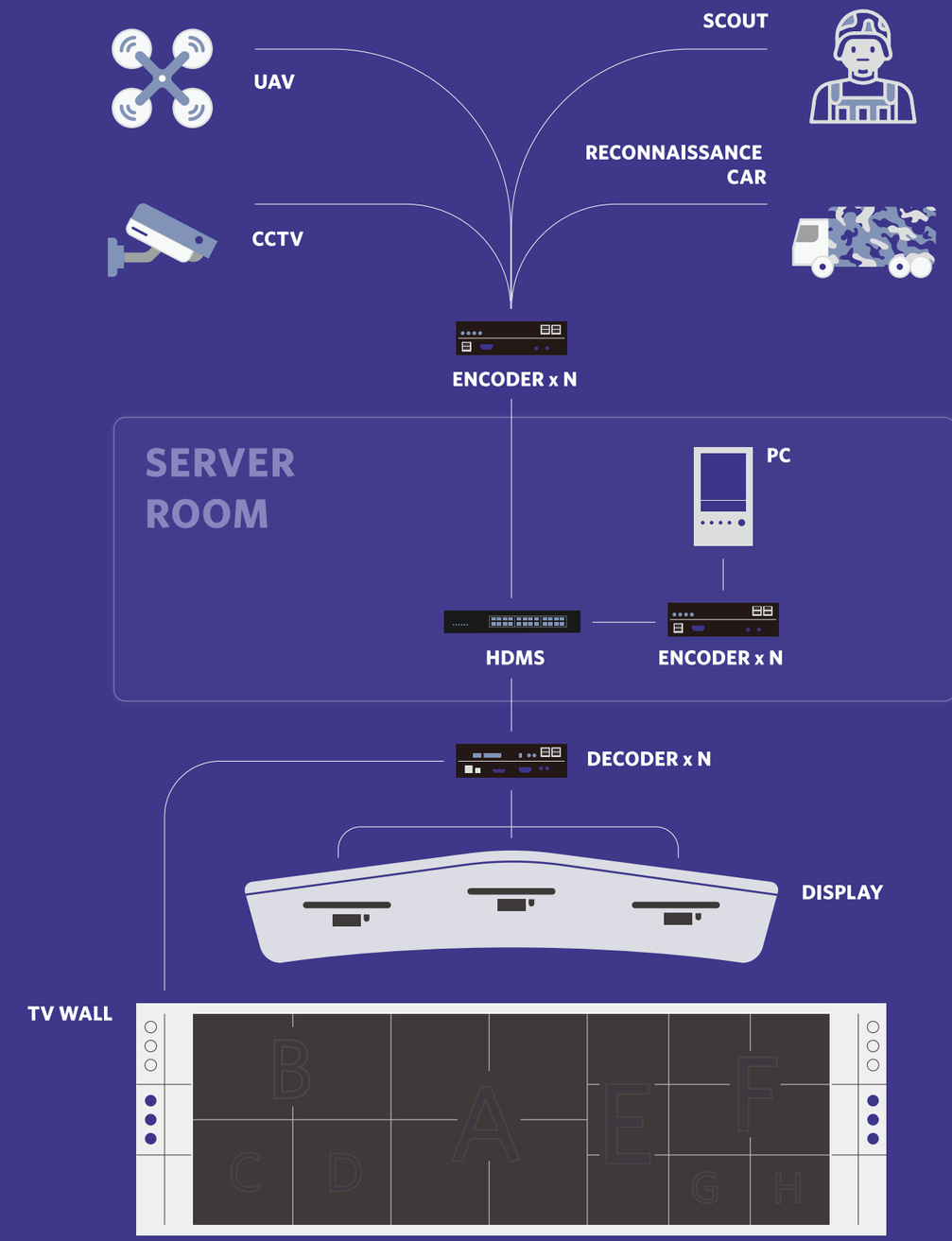
ProAV systems are essential in situation rooms because they allow personnel to receive and analyze critical information in real-time. These systems can include large-format displays, video walls, projectors, and other video solutions that allow multiple feeds to be displayed simultaneously.

In addition to providing high-quality audio and video solutions, ProAV systems can also integrate with other technologies used in situation rooms, such as computer networks, data analytics software, and other specialized tools. This integration allows personnel to access and analyze data from multiple sources, providing them with a comprehensive view of the situation at hand.

Overall, ProAV systems are essential for situation rooms because they provide high-quality, reliable solutions that enable personnel to effectively monitor, analyze, and respond to events in real-time.

OUR SOLUTIONS

SITUATION ROOMS



HOW DOES ProAV INTEGRATE WITH CASINOS ?

4K encoder and decoder technology is becoming increasingly popular in the casino industry, as it allows for high-quality video streaming and enhanced gaming experiences. The casino installed a large TV wall in their sportsbook area, which displayed multiple games and events simultaneously. The TV wall was made up of multiple high-definition screens, which were connected to a multi-viewer system.

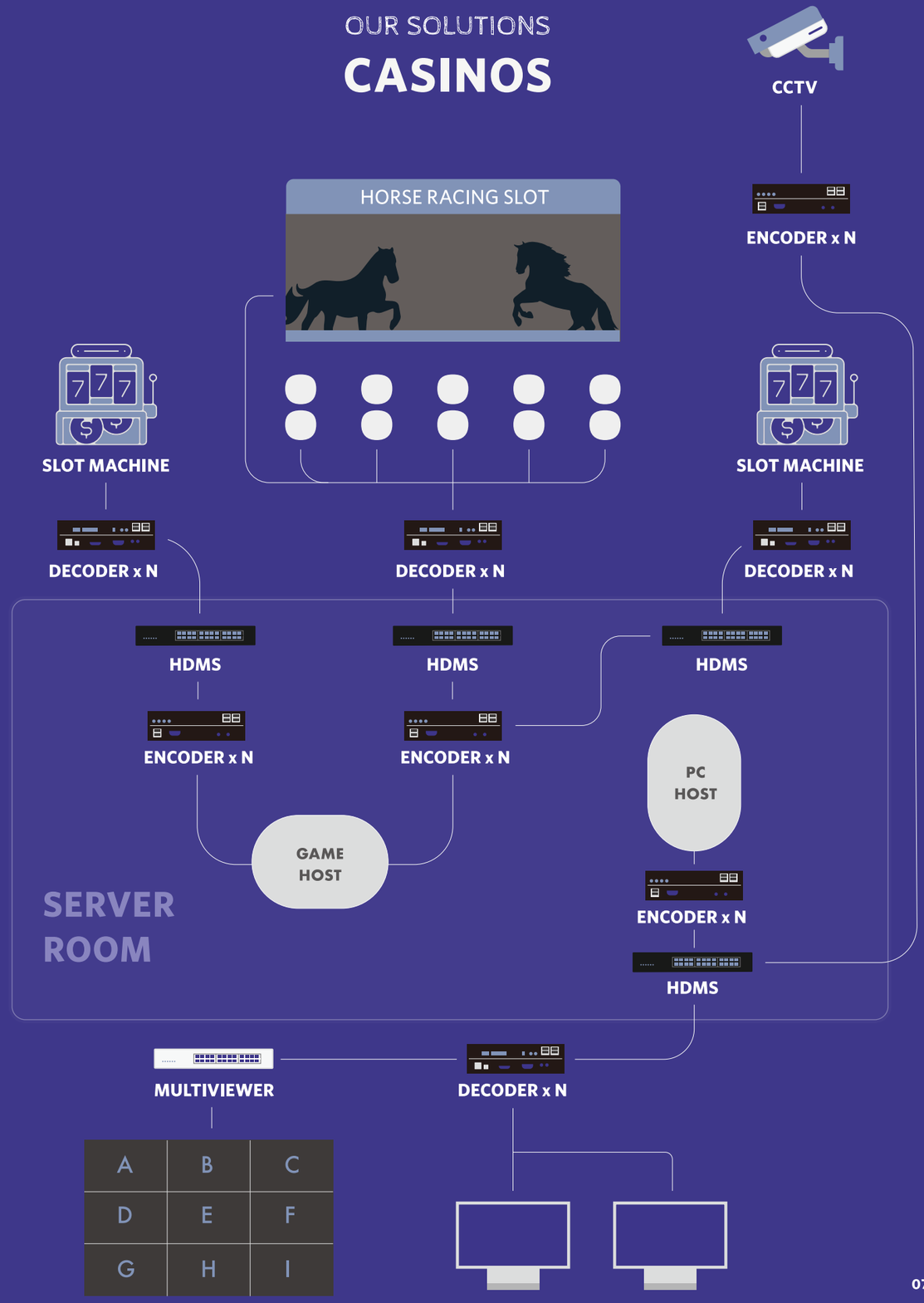
The casino installed 4K encoders in their slot machines, which captured high-quality video footage of the slot machine's gameplay. The encoders converted the analog video signals into digital signals, which were then transmitted over an IP network to the casino's cen tral server.

The 4K encoder and decoder technology also allowed the casino to display promotional content and advertisements on the high-definition displays. This provided additional revenue streams for the casino, while also promoting upcoming events and offers to their customers.

In conclusion, 4K encoder and decoder technology has proven to be an effective solution for casinos looking to enhance the gaming experience of their customers. Its ability to display promotional content and advertisements also provides additional revenue streams for casinos, making it a valuable asset in the gaming industry.

OUR SOLUTIONS

CASINOS

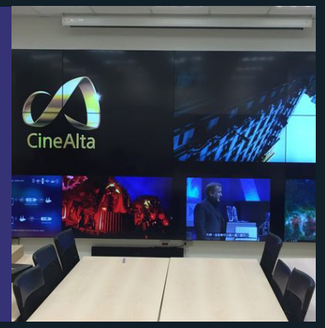


ACTUAL CASE

CONFERENCE ROOM

01

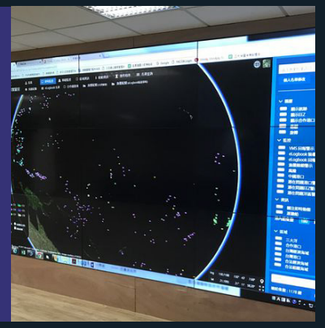
ENCODERS X 6
DECODERS X12
HDMS X 1



FISHERIES AGENCY

02

ENCODERS X 1
DECODERS X 9
HDMS X 1



DEPARTMENT STORE

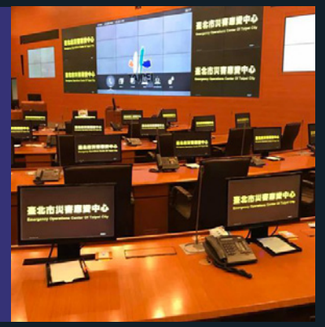
03

ENCODERS X 6
DECODERS X 6

GOVERNMENT

04

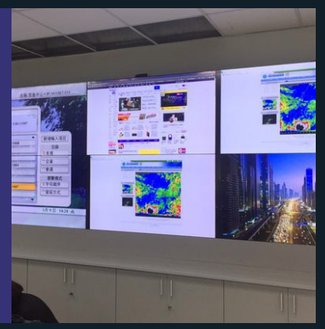
ENCODERS X 2
DECODERS X 32
HDMS X 1



CIVIL AVIATION ADMINISTRATION

05

ENCODERS X 4
DECODERS X 8
HDMS X 1



MONITORING ROOM

06

ENCODERS X 3
DECODERS X 6
HDMS X 1

CONTACT INFORMATION

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MISSION CRITICAL

TOGETHER
BEYOND
THE
SUMMIT

SUSTAINABLE DEVELOPMENTAL PLAN

ACT POWER is committed to being one of the leading technology service providers around the world. We are constantly looking for opportunities to create value for customers and create mutual prosperity and mutual benefits.

SOCIAL RESPONSIBILITY & ENVIRONMENTAL POLICY

We are committed to maintaining ecological balance, promoting corporate social responsibility, promoting green production, actively participating in charity activities, paying attention to vulnerable groups, promoting the physical and mental health and safety of employees, and creating an open business stage for talents to fully develop.

MISSION CRITICAL

ACT MILITARY PRODUCT DEVELOPMENT HISTORY / 01

WHY ACT POWER - FOUR REASONS TO CHOOSE THE ACT / 01

- DESIGN FOR MILITARY STANDARD FROM THE PROSPECTIVE OF CUSTOMER 02
- SUNLIGHT READABLE - Ultra High Brightness 03
- EXTREME ENVIRONMENT APPLICATION - Smart Heater 04
- CUSTOMIZATION DESIGN FOR APPLICATION 05

MILITARY LCD MODULE / 06

MILITARY LCD MODULE WITH OPEN FRAME DESIGN / 06

HIGH LEVEL POWER SUPPLY DC/DC CONVERTER / 07

19" 3U RUGGED RACK MOUNT SERVER / 07

AD BOARD, CABLES AND OTHER ACCESSORIES / 08

ACT MILITARY PRODUCT DEVELOPMENT HISTORY

2016
In-house Rugged Design Product

2018
Military Standard Display

Distribution: India, Middle-east

2019
Military Standard Panel PC, BOX PC

2021
Other Military Products

Distribution: Worldwide

2022
New development for Military Product – Military Embedded System and System integration

Programmable Temperature and Humidity Chamber

CAPABILITIES FOR PRODUCTS
DEVELOPMENT, MANUFACTURE AND SOURCE

ACT has our own in-house design team, including members from both electronics engineering and mechanical engineering backgrounds. Our team has been experienced in researching and developing products for military application.

We love to keep close relationship with our customer. Based on the deep knowledge from the IPC industry towards military application. We are not only aware of standards of military compliance, but also think from the perspective of the end-user about putting ourselves into their application scenario. Through our Design to Order Service (DTOS), we can provide a suitable solution for our customer in an efficient and accurate way.

ACT has our own manufacturing house for the NCT, die casting for sample & mass production. With respect to military standard products, our team are professional in EMI Mesh and Optical Bonding, Rugged Design, EMI/EMC design and solution.

Since we are familiar with the military display industry, ACT has a very stable source of display panels, panel glass, EMI shielding material supply.

QUALITY ASSURANCE
VALIDATION CENTER

ACT always cares about the quality of products. ACT has set up an in-house validation center. It helps us to validate the performance of the design, and ensure the quality of products delivered. For the EMI/EMC testing, it will be performed in an ISO-certified laboratory. For environmental compliance, for example, temperature, humidity, shock, vibration, etc., we do our design validation, incoming/ outgoing quality check at our facility.

WE MAKE PRODUCTS
THAT MEET YOUR NEEDS

WHY ACT TAIWAN

FOUR REASONS
TO CHOOSE ACT

1

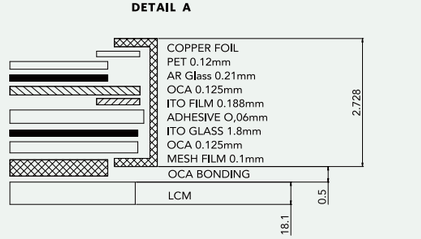
DESIGN FOR MILITARY STANDARD FROM THE PROSPECTIVE OF CUSTOMER

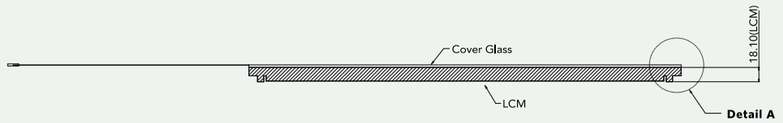
MIL-STD-461 and MIL-STD-810 are the basic standards for military products. The products should have high durability and reliability as well. ACT military products are designed to meet different military standards. With our experience in the military industry, we are capable of using different types of materials, e.g., EMI copper table, gasket, stirp, texture and processing method to achieve the requirements cost-effectively.

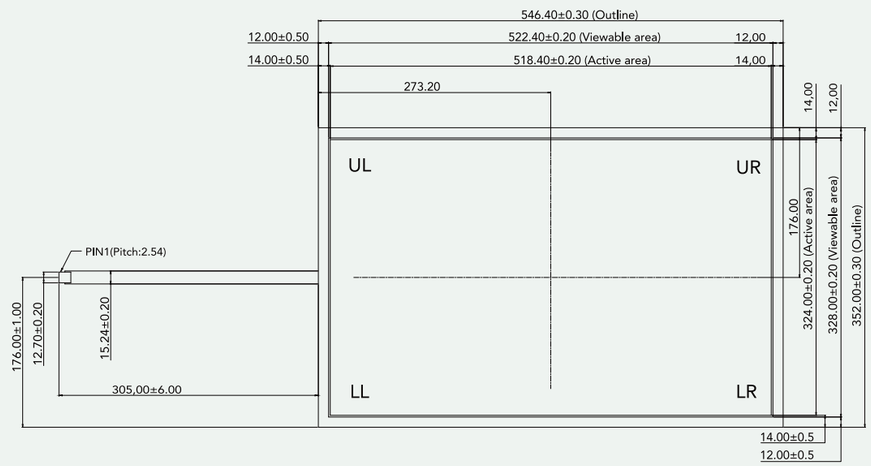
We understand that rugged design starts from every component in the device. For example, screw selection, material processing, heat conduction setup, component integration, etc. Our know-how can always provide a suitable solution to the customer's application. The product should be able to withstand impact, vibration, temperature extremes, and exposure to moisture and other environmental factors.

For instance, when we design the product to meet MIL-STD-461 and MIL-STD-810, ACT can strike a balance between cost and performance. From the material section, towards the assembling difficulties and application scenario, we can always give key components or suggestions for the integration.

CONNECTOR PINOUT	
Pin NO.	Designation
1	UR
2	LR
3	SG
4	UL
5	LL







CASE STUDY

TOUGHENED GLASS OPTICAL BONDING

SLM-MR240K-E

CUSTOMER REQUIREMENT

Extra glass on the 24" resistive touch display to enhance the hardness of the glass and protect the resistive touch damaged from outer force.

DIFFICULTY

a Adding an extra glass on the resistive touch could affect the touch response and AR/AG performance.

b The greater the size of the glass, the harder it is to be handled in terms of manufacturing and bonding process, considering the glass has to be thin enough that touch performance cannot be affected.

SOLUTION

ACT designs a thin AG glass on top of the touch glass. ACT developed an in-house technique to bond the thin glass by OCA and optical bonding.

ACHIEVEMENT

01 Maintain the same resistive touch performance as without extra glass on the resistive touch glass.

02 Bring the AG feature into the glass on top, enhancing the AG performance.

03 Protect the resistive touch glass by 6H thin Glass

SLM-MR240K-E

2

SUNLIGHT READABLE - Ultra High Brightness

When we consider the outdoor or vehicle application, sunlight readable feature should be one of the basic requirements. Especially for military products, no customer would like to find the display unseeable under sunlight.

In some cases, the original panel was only able to support 350 nits brightness. After optical bonding, the brightness could take up to a 30% discount. ACT has been experiencing high brightness modification. We have the know-how to use the driver board to boost the panel brightness, adding extra LED backlight to the panel, or even customizing a new panel to meet the requirement.

In addition, the higher brightness of the panel will generate greater heat at the same time because of the power consumption. With our design team, we are able to provide a suitable solution to assist in handling the heat spread even in large-sized panels.

ITEM	SYMBOL	MIN	TYP	MAX	UNIT	REMARK
Input Voltage	Vin	10.8	12	13.2	V	
Input Current	Iin	-	400	2000	MA	
On / Off	SW	2	5	5	V	
Fregrency	F	280	330	360	KHz	
H.V load	Vload	-	18	68	VDC	ADJ:0V
H.V open	Vopen	-	12	68	VDC	NO LOAD
Efficiency	9	-	95	-	%	

CASE STUDY

HIGH-BRIGHTNESS SLM-MR101M-E

CUSTOMER REQUIREMENT

As a key component for military tablet application, the customer requires a 10.1 inch LCD module with low power consumption. The minimum resolution requirement is Full HD.

DIFFICULTY

Most 10.1" panels in the market cannot achieve 4 requirements at the same time.

a to be a military display in terms of the structure and electronic standards
b With high brightness, after optical bonding, 700 nits
c Support Full HD resolution
d With low power consumption

SOLUTION

ACT has modified a panel on the driver board and LED modification to meet all the above requirements.

ACHIEVEMENT

01 Panel with reliable structure and electronic performance. Wide Working temperature from -20°C to 70°C
02 Before bonding, the panel can support 1000 nits brightness. The finishing product can support up to 700+nits after optical bonding
03 Support 1920x1200 resolution
04 Low power consumption: <6W in typical operation
05 Extra: black silk print on the top of the panel glass, considering the front mount assembled in the customer's tablet design

DRIVER BOARD SPECIFICATION

PARAMETER		SYMBOL	VALUES			UNIT	NOTES
			Min.	TYP	MAX		
Power Supply Voltage		VOD	3.0	3.3	3.6	V	
		VRP			300	mV	Ripple
Power Supply Current		IDO	-	300	360	mA	Note 1
Power Consumption		PLCD	-	1	1.2	W	Note 2
Rush Current		IRUSH	-	-	3.0	A	
CMOS Interface	Input Voltage	VIH	2.7		3.30.5	V	
		VIL	0		3.3	V	
	Output Voltage	VOH	2.7		0.5	V	
		VOL	0			V	

3

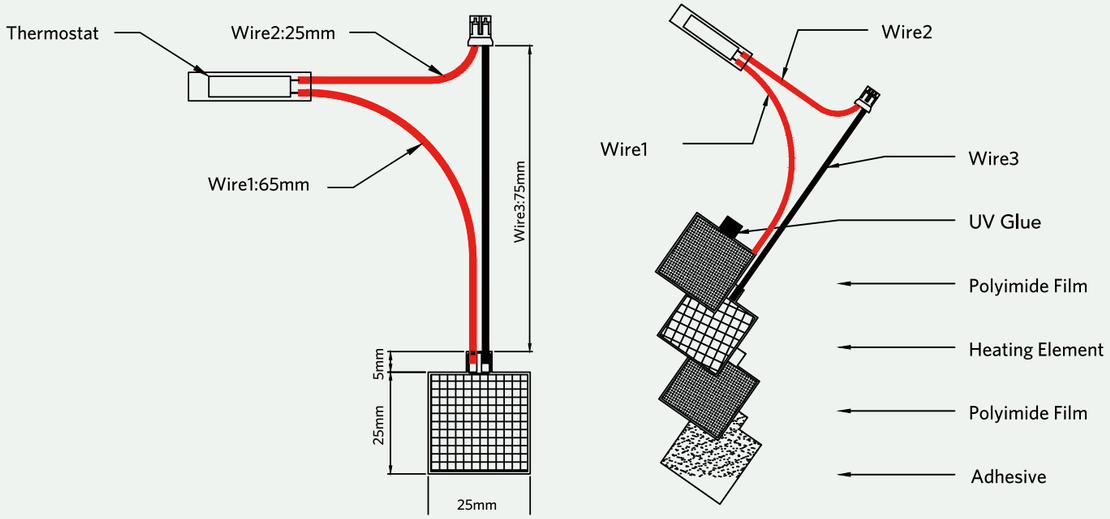
EXTREME ENVIRONMENT APPLICATION - Smart Heater

Military standard products should be reliable and able to perform consistently and predictably in all circumstances. Nowadays, many ICs and components provide a wide operating temperature. Like for some PCBAs, they are able to support -40 °C to 85 °C in operation. However, the LED Panel has another story.

Due to the nature of LED, most panels cannot be boosted up in low temperature. i.e., <-30 °C. At the same time, especially in military applications, it is common that a military product has to start working in an extremely low temperature environment.

In ACT products, especially in panel design, we always use a smart heater for the requirement to work below -20 °C.

HEATER DESIGN



ADVANTAGES

A

FAST WARM UP ON SPECIFIC COMPONENTS

For a common heater, it aims to boost the overall temperature in the structure. It delays the operation as we have to wait until the whole environmental temperature is raised. For our design, the heater is assembled as part of the component. For example, at the back of the panel. The heat conduction is through direct contact. Therefore, the device can be warmed up within a very short period of time.

B

STRUCTURAL DESIGN

ACT Heater size can be customized according to the components and it is flexible to integrate into the system. Also, when we need to consider the shock & vibration requirements, the heater pad is a paste form heater. It could be installed easily and firmly. After the electronics components analysis, we could assemble the heater on to the core part of the component. It does not greatly affect the overall thickness and occupy too much space in the structure.

C

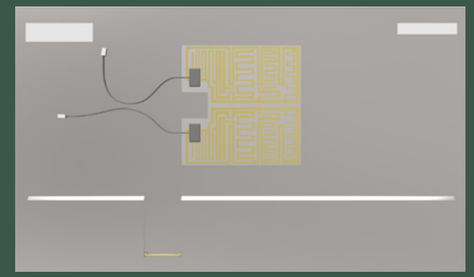
WIDE RANGE COMPATIBILITY OF POWER CONSUMPTION

Power supply voltage could be 1 to 240V AC/DC input. It could be compatible with different system integration.

D

EASY SETUP

The heater itself is controlled by a sensor. The operation runs automatically. For example, once the thermostat sensor detects the environmental temperature that is below 0°C, the heater will start operation to warm up the device.



4

CUSTOMIZATION DESIGN FOR APPLICATION

The ability to customize military standard products requires a flexible design that can accommodate modifications and additions without compromising the product's performance or reliability.

ACT has our own engineer team to develop the key components or final product into customers' application. Our engineering team includes both mechanical engineers and electronic engineers to co-work on the product.

STRENGTH OF ACT CUSTOMIZATION (DTOS)

A

FAST DEVELOPMENT TIME

ACT understands that customers require a high level of validation in military products. While having an in-house team for the product design, we are able to provide the solution efficiently. We would also like to provide a one-stop solution through our research and development team ability. It reduces the time for debugging and enhancement.

B

STRONG LINKAGE IN MECHANICAL AND ELECTRONICAL INTEGRATIONS.

Mechanical design is not the barrier of the product. It is assistance for the product. For example, today, we need to design a fan-less box PC using the Intel i7 Generation 10 CPU as required. Starting from the motherboard layout, we tried to put all the heat-generating components to be separated. However, it is unavoidable that the heat generation from the CPU will be too high. After heat simulation, our mechanical team will bring a head conduction solution to the product.

C

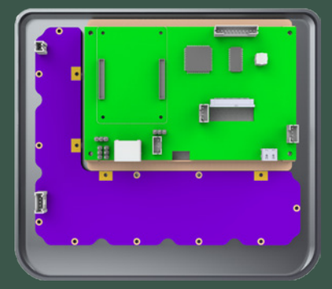
WIDE CUSTOMIZED OPTIONS

Military products include various features in different applications. For example, extreme high reliability in military servers, which may require redundancy design in both power supply and storage backup, or water-proof and EMI protection at the same time in outdoor usage. According to our team's know-how and experience in this industry for many years, we can always provide a suitable solution.

D

SYSTEM INTEGRATION FOR MORE POSSIBILITIES

Mission critical is one of the main series of ACT products, but ACT has more than that. With our development in other series, we can assist our customers to explore more possibilities in customers' applications. For example, we can integrate our PRO AV products to build up the situation room or monitoring center in the military station.



MILITARY LCD
MODULE

MODEL	SLM-MR2400-E	SLM-MN064M-E	SLM-MN064M1-E	SLM-MN084M-E	SLM-MN084M1-E	SLM-MR084M-E	SLM-MR084M2-E	SLM-MR101M-E	SLM-MC104M-E
Display Size	5"	6"	6"	8.4"	8.4"	8.4"	8.4"	10.1"	10.4"
Resolution	720 x 1280	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1024 x 768	1920 x 1200	1024 x 768
Luminance	700 cd/m2	800 cd/m2	800 cd/m2	800 cd/m2	800 cd/m2	700 cd/m2	700 cd/m2	700 cd/m2	700 cd/m2
Contrast Ratio	800:1	800:1	800:1	800:1	800:1	800:1	800:1	900:1	1000:1
No. of Color	16.7M	16.7M	16.7M	16.7M	16.7M	16.2M	16.2M	16.7M	16.1M
Touch	Capacitive Touch	No Touch	No Touch	No Touch	No Touch	Resistive Touch	Resistive Touch	Resistive Touch	Capacitive Multi Touch
Touch Interface	I2C	-	-	-	-	USB	USB	USB	USB
AG/AR Strengthern Glass	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMI Mesh + Optical Bonding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operating Temperature	-20°C to 70°C	-40°C to 80°C	-40°C to 80°C	-40°C to 85°C	-40°C to 80°C	-40°C to 85°C	-40°C to 85°C	-20°C to 70°C	-30°C - 80°C
Storage Temperature	-30°C to 80°C	-40°C to 80°C	-40°C to 80°C	-40°C to 90°C	-40°C to 90°C	-40°C to 90°C	-40°C to 90°C	-30°C to 80°C	-30°C - 80°C
MIL-STD-461E/F shock compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIL-STD-810D shock compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIL-STD-810E vibration compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional information	With bezel option		Panel Mount		Panel Mount	Customized Glass		Panel Mount	

MODEL	SLM-MR104M-E	SLM-MR150M-E	SLM-MR185M-E	SLM-MR213M1-E	SLM-MR215M-E	SLM-MR230M-E	SLM-MR240M-E	SLM-MN270M-E	SLM-MC270M1-E
Display Size	10.4"	15"	18.5"	21.3"	21.5"	23"	24"	27"	27"
Resolution	1024 x 768	1024 x 768	1920 x 1080	1600 x 1200	1920 x 1080	1920 x 1080	1920 x 1200	1920 x 1080	1920 x 1080
Luminance	700 cd/m2	700 cd/m2	700 cd/m2	900 cd/m2	700 cd/m2	700 cd/m2	900 cd/m2	1000 cd/m2	700 cd/m2
Contrast Ratio	1000:1	2500:1	1000:1	1800:1	3000:1	1000:1	1000:1	3000:1	1000:1
No. of Color	16.1M	16.7M	16.7M	16.8M	16.7M	16.7M	1.07B	16.7M	16.7M
Touch	Resistive Touch	Resistive Touch	No Touch	Resistive Touch	Resistive Touch	Resistive Touch	Resistive Touch	No Touch	Capacitive Multi Touch
Touch Interface	USB	USB	USB	USB	USB	USB	USB	-	USB
AG/AR Strengthern Glass	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
EMI Mesh + Optical Bonding	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Operating Temperature	-30°C to 80°C	-20°C to 55°C	-20°C to 70°C	-20°C to 60°C	-20°C to 50°C	-20°C to 55°C	-20°C to 60°C	-20°C to 55°C	-20°C to 55°C
Storage Temperature	-30°C to 80°C	-30°C to 70°C	-20°C to 70°C	-20°C to 60°C	-30°C to 70°C	-20°C to 60°C	-30°C to 70°C	-30°C to 70°C	-30°C to 70°C
MIL-STD-461E/F shock compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIL-STD-810D shock compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
MIL-STD-810E vibration compliance	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Additional information									

REMARK

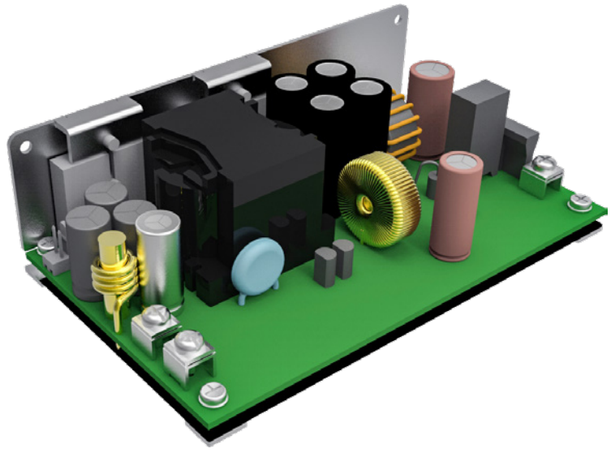
1.Above military LCD module is as a key components for the final products. To work with mentioned compliance, LCD kit has to be properly packed with bezel and back cover with required EMI-EMC and IP Gaskets to meet EMI/EMC and Environmental specifications

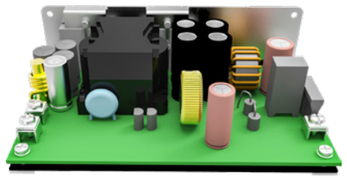
2.All the above LCD Module can be customized into LCD Kit, open frame or further design.

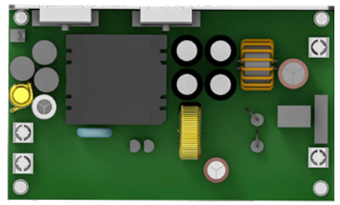
MILITARY LCD MODULE WITH OPEN FRAME DESIGN

MODEL	SLM-MR2400-E
Display Size	24 inch TFT LCD
Resolution	1920 x 1200
Luminance	300 nits (Upgradable)
Touch	Resistive Touch
Touch Interface	USB Touch
Touch Glass	AG/AR Strengthen Glass
Viewable Area	522.4 x 328 mm
Active Area	518.4 x 324 mm
Optical Bonding	Yes
EMI Mesh	Yes
Operating Temperature	-10°C to +60°C
Storage Temperature	-20°C to +70°C
EMI/EMC	Designed to meet MIL-STD-461E/F
Shock	Designed to meet MIL-STD-810D
Vibration	Designed to meet MIL-STD-810E
Weight	Approx. 13 kg

HIGH LEVEL POWER SUPPLY
DC/DC CONVERTER





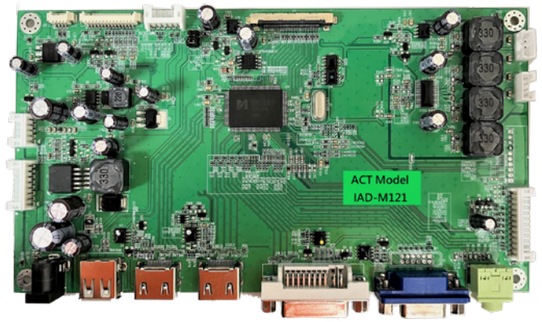


MODEL	DC-0150800-M
Input Range	9 to 36VDC
Input Current	Max load 16 Amp
Output Voltage	15 VDC
Output Current	8 Amp
Operating Temperature	-30°C to +70°C
Storage Temperature	-35°C to +75°C
Dimension	127 x 76.2 x 38 mm
Safety	EN 62368
EMC	EN 55022 / EN 55032, CISPR 32 & FCC Part 15 ClassA/ Class B
Further compliance	EMI shielding bracket design possible. Design to meet MIL-STD-461F and MIL-STD-1275D
Input Reverse Polarity Protection	When incorrect input polarity installation, the PSU will be not damaged and no output voltage.
Overvoltage Protection	For some reason the power supply fails to control itself, the build-in over voltage protection circuit will shut down the outputs to prevent damaging external circuits.
Short Circuit or Over Load Protection	The power supply will go into hiccup mode against short circuit or over load conditions, and will auto-recovery while fault conditions moved.

19" 3U RUGGED RACK MOUNT SERVER

MODEL	MIC-S0301
Size	3U, 19" Rack Mount
Processor	Intel® Xeon® Gold 6230 Processor, 20-cores, 40-threads 2.1 to 3.7GHz Frequency 42MB Cache Memory
Memory	Total 128 GB ECC DDR4 2933MHz pre-mounted Up to 256 GB capacitive each slots, 12 DIMM slots
Graphics	GEFORCE GT 710 2GB DDR3 64-bit graphics RAM
Storage	M.2 Interface: 4 PCIe 3.0 x4, RAID 0 & 1 Form Factor: 2242/2260/2280/22110 Key: M-Key M.2 support RAID 0,1(up to RAID 5, 10), VROC key is required for Raid 2 TB M.2 SSD pre-mounted
PCI-E	4 PCIe 3.0 x16, 3 PCIe 3.0 x8 (in x16 slot)
I/O ports rear (MIL Circular) With dust caps with cable secured	4 x LAN with D38999 military connector 3 x USB2.0 with D38999 military connector 3 x RS232 with D38999 military connector 1 x HDMI with D38999 military connector 1 x DVI-D with D38999 military connector 1 x AC with D38999 military connector
I/O ports front Buttons	1 x On/ OFF button 1 x Reset button 2 x LED indicators
Dimensions	3U – 17.5" x 24" x 3.5 (W x L x H)
Power	Power consumption: Approx. 200 Watts Power supply: Dual 550W Redundant power supplies Supports Automatic Power on State in BIOS Power input: AC 90-264V input
Operating Temperature	0°C to +55°C (Standard) -30°C to +55°C (With Heater)
Storage Temperature	-40°C to +70°C (Note)
Compliance	Designed to meet MIL-STD-810G, MIL-STD-461E

AD BOARD, CABLES AND OTHER ACCESSORIES



▲ AD Board

▲ Cables and Other Accessories

MODEL	**IAD-M121**
Features	3D COMB FILTER and ACE-3 Color Engine Support 8bits/ 10bits LVDS interface VGA, DVI, HDMI x 2, USB Media, RS232, Light Sensor Supported Audio 5W x 2 Supported USB Port for Firmware Upgrade
DC Input	12 VDC
Panel Power Output Selection	3.3V/ 5V/ 12V DC
Operating Temperature	-20°C to +55°C
Compliance	Designed to meet MIL-STD-810G, MIL-STD-461E

ACT is also capable of designing and manufacturing different water-proof, or D38999 military cables. Based on our client's original design, we can provide a cost-effective proposal.

Besides, other accessories, for instance, EMI shielding bracket design, mounting solution, AD Board, internal cables and heater. These are common projects we have been handling.

Last but not least, we always stay with our clients. Our Design to order service has been customizing plenty of solutions over the years. We understand that our customers have different applications, environmental and structural requirements. Our customization service would definitely provide solutions for you and your customers.

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