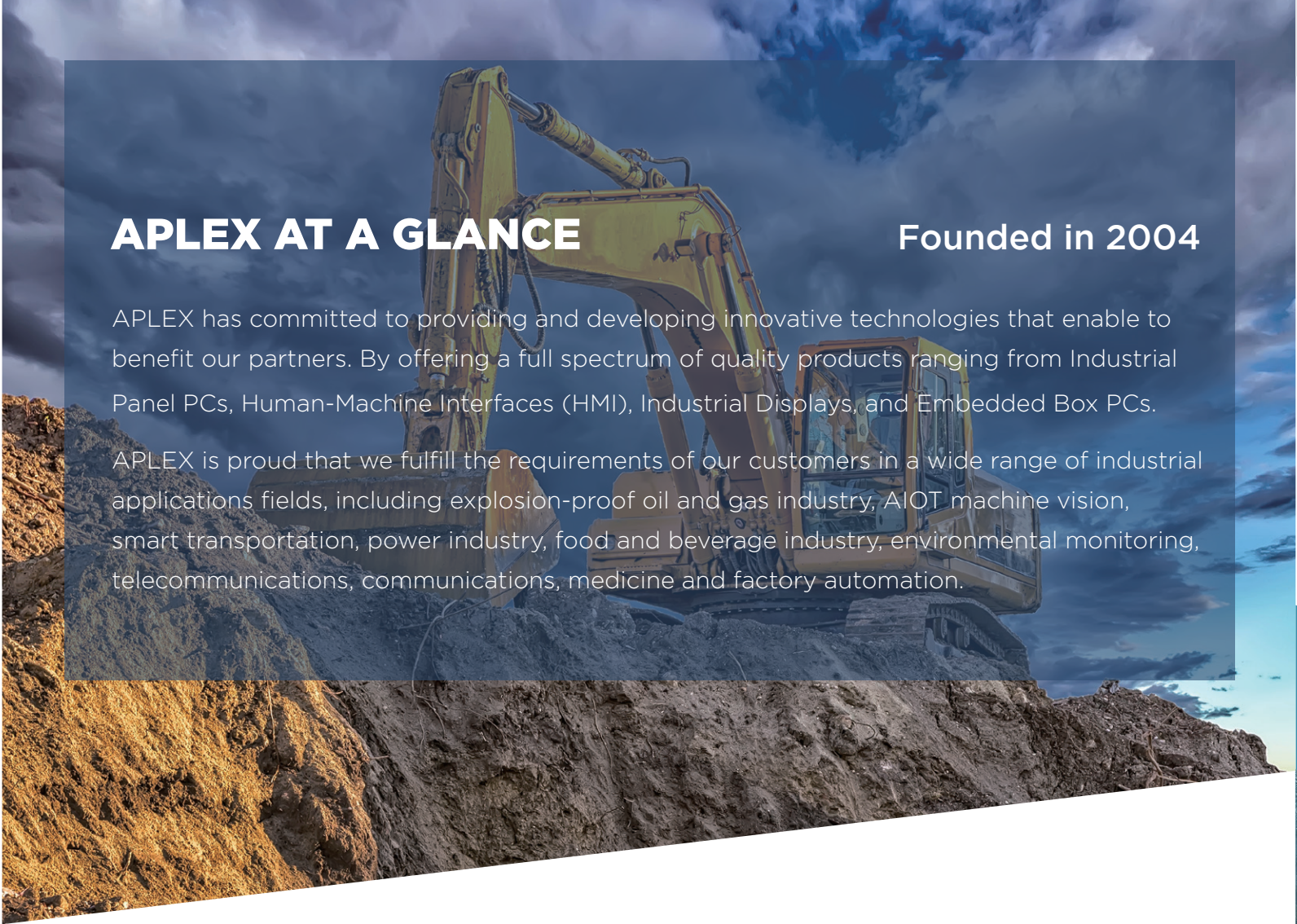


Product Specification

Model	AVA-610AP	
System		
CPU	NXP i.MX8M Plus Quad, 4 x Cortex-A53 up to 1.8 GHz	
Memory	Onboard 4GB LPDDR4-3200MHz SDRAM	
IO Ports		
Rear	ISOBUS Connectors: 12-pin DT15-12PA connector 1 x J1939 + 1 x COM (RS-232/422/485) 12-pin DT15-12PB connector 1 x GbE LAN + 1 x USB2.0 4-pin DT15-4P connector for 9~60V DC input 4 x SMA connectors for optional Wi-Fi/BT/LTE/GPS antennas, one of the SMA connector can be optional for 3.5mm phone jack M12 Connectors: 1 x 3-pin for 9~60V DC input 1 x 8-pin for 2 x USB2.0 1 x 8-pin for COM (RS-232/422/485) 1 x 8-pin for 2-ch J1939 1 x 8-pin for 1 x GbE LAN 4 x SMA connectors for optional Wi-Fi/BT/LTE/GPS antennas, one of the SMA connector can be optional for 3.5mm phone jack	
Edge	• 1 x USB2.0 Type-A connector • 1 x Nano SIM • 1 x Micro SDXC slot	
Audio	2 x 2W IP65 speaker	
Expansion		
Expansion slot	2 x Internal full-size mini-PCle socket (for option) - USB 2.0 for HSUPA/LTE Module - PCle + USB2.0 for WIFI/BT Module	
Optional	• 1 x RFID Module • 1 x Ambient Light Sensor • 1 x 5MP Camera	
Storage Space		
Storage	Onboard 32GB eMMC NAND Flash	
Display		
Display Type	10.1" TFT-LCD	
Max. Resolution	1280 x 800	
Max. Color	16.7M	
Luminance (cd/m2)	500 nits (1000 nits for option)	
View Angle	170(H) / 170(V)	
Contrast	1000:1	
Backlight Lifetime	50,000 hrs	
Touch Screen		
Type	Projected Capacitive Touch (Light Transmission: over 90%)	
Interface	USB	
Power		
Power Input	DC 9~60V (ACC Ignition function and Delay ON/OFF setting option)	
Power Consumption	MAX: 25W	
Mechanical		
Construction	Engineering Plastic front/rear bezel	
Mounting	VESA mount 75 x 75, RAM Mount (2.25" Rubber Ball "D" Size)	
Ingress Protection	Complete IP65	
Dimensions	269 x 210 x 42 mm	
Environmental		
Operating Temperature	0~50°C (WT1: -20~60°C for option)	
Storage Temperature	-30~80°C	
Humidity	10 to 90% @ 40°C, non-condensing	
Other		
Certificate	CE/FCC Class A, MIL-STD-810H for vibration/Shock, E MARK	
Operating System	Android 11	



APLEX AT A GLANCE

Founded in 2004

APLEX has committed to providing and developing innovative technologies that enable to benefit our partners. By offering a full spectrum of quality products ranging from Industrial Panel PCs, Human-Machine Interfaces (HMI), Industrial Displays, and Embedded Box PCs. APLEX is proud that we fulfill the requirements of our customers in a wide range of industrial applications fields, including explosion-proof oil and gas industry, AIOT machine vision, smart transportation, power industry, food and beverage industry, environmental monitoring, telecommunications, communications, medicine and factory automation.



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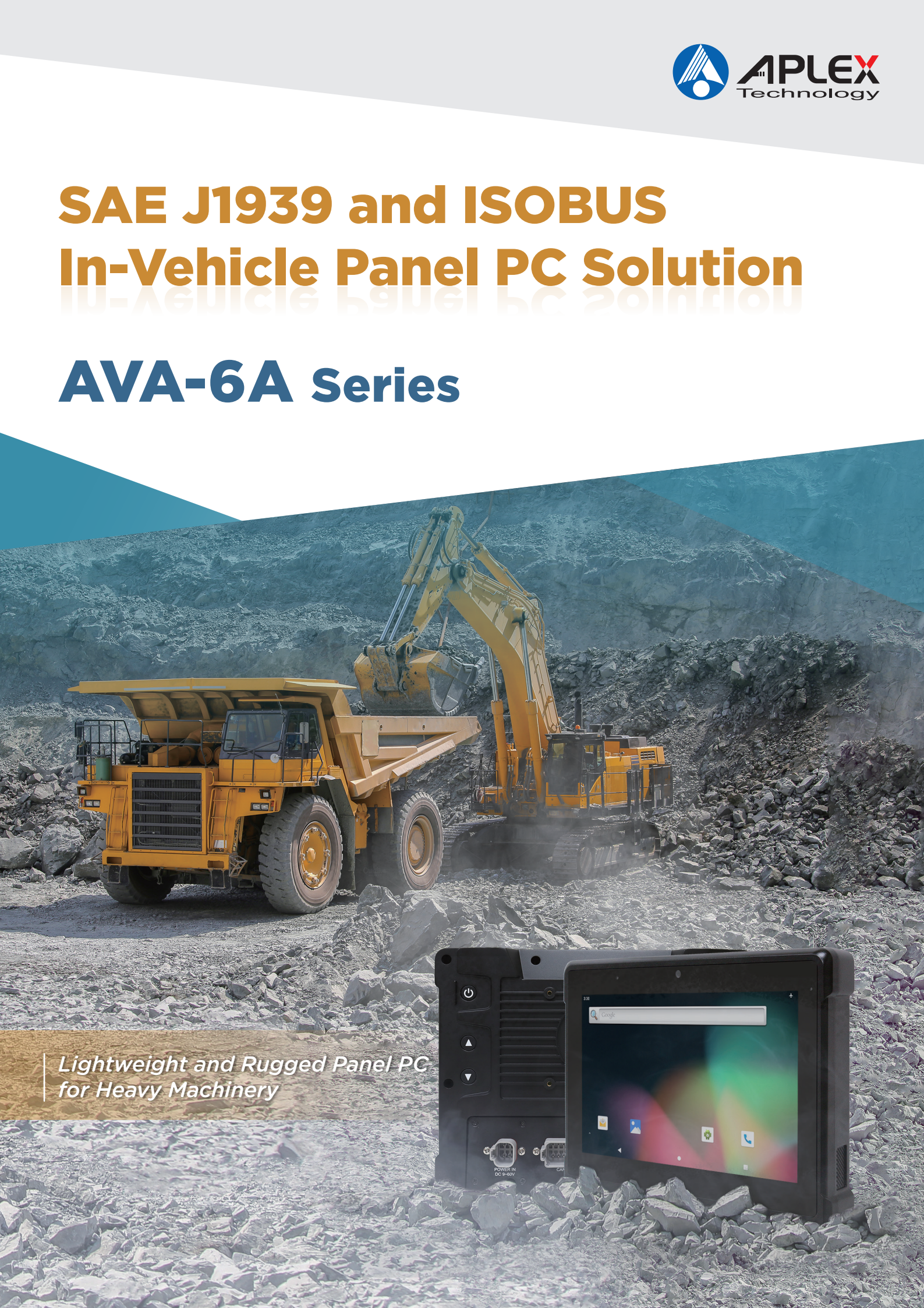


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SAE J1939 and ISOBUS
In-Vehicle Panel PC Solution

AVA-6A Series



Lightweight and Rugged Panel PC
for Heavy Machinery



AVA-6A Series

AVA-6A panel PC series is the solution for heavy machinery. It is designed to be attach great importance to working safety and require high stability, water, dust and strong vibration resistance to be applied to semi-outdoor, harsh and corrosion environments. For example, mining industry, construction site, agriculture industry, warehouse, etc.

Features

- NXP i.MX8M Quad Plus Processor
- -20~60°C Wide Range Temperature
- 10.1" TFT-LCD
- Wide Range DC 9~60V Power Input
- Engineering Plastic Construction
- Android 11 Operation System

Slim Panel PC

42mm

Ambient Light Sensor (for option)

5MP Camera (for option)

Side I/O Port

- USB2.0 Type-A
- Nano SIM
- Micro SDXC slot

2W IP65 Speaker

Flat Front Panel

Touch Screen Monitor

Projected Capacitive Touch

Applications



Heavy Equipment



Agriculture Machinery



Forklift

Total Waterproof

In the warehouse or in heavy industry including indoor and outdoor environments, APLEX's in-vehicle panel PC are total IP65 certified and also equipped with M12 or ISOBUS connectors to resist dust and water ingress.



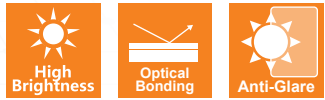
MIL-STD 810H

Rugged Design

AVA-6A series is constructed with lightweight engineering plastic, which has outstanding high temperature stability featuring with rugged and fanless design. It is durable and easy to maintain. Moreover, it has meet MIL-STD-810H for vibration to withstand rough and bumpy road.

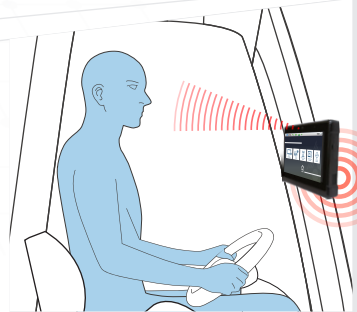
Sunlight Readable Solution

Heavy in-vehicles are mostly being used in outdoor or semi-outdoor. AVA-6A series provides up to 1000 nits of high luminance and optical bonding to reduce reflection for better readability.



Driver Monitoring Camera

(for option)



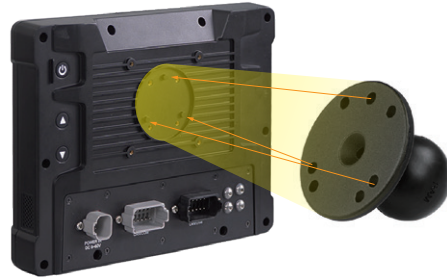
Front camera for driver status monitoring. It will protect driving safety by image detecting and security access controlling. Moreover, it can also communicate with central control and support facial recognition.

Mounting Applications

To be able to applicate in all kinds of vehicles, AVA-6A series provides two mounting ways, VESA Mount 75 x 75 and RAM Mount.



• VESA Mount



• RAM Mount



Wireless Connections

Supporting various internet connectivity, including Wi-Fi, Bluetooth, 4G and GPS for real-time communicating as well as fleet and status tracking.

Functional Keypad

AVA-6A comes in rear programmable keypads (default volume +/-) and one power button to fasten working procedure.



Difference of AVA-610API & AVA-610APM

AVA-610API and AVA-610APM are respectively different in connectors, the former is equipped with ISOBUS for agriculture machinery and the latter is with M12 connectors for widely usage in heavy-duty in-vehicle applications.

ISOBUS

AVA-610API ISOBUS Connectors

Agriculture machinery with SAE J1939/ ISOBUS communication protocol which communicate data and information between tractors, vehicle, accessory equipment and software.



M12

AVA-610APM M12 Connectors

M12 connectors protect the system for long-term usage with its' water-resistive and dust-resistive features.



ACC Control (optional)

ACC will delay the time of power on/off to prevent panel PC from software and hardware damage which caused by sudden shutdown.



RFID Control (optional)

Driver identification is a helper that can make driver and fleet managing much easier.