



AT85

Tablet



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AT85 is a high-performance and full-featured smart in-vehicle device with outstanding core performance and adaptability. In terms of hardware, it is equipped with a CPU with 1TOPS computing power, a high-performance GPU, and a 0.8TNPU, which can meet the needs of 2D/3D image rendering and lightweight AI applications. In terms of functions, it supports centimeter-level positioning, and 4G/5G communication, ensuring stable operation in both remote areas and urban areas. The device has an IP65 protection rating to cope with extreme environments and is also equipped with the CPComm cross-process bus architecture, helping customers easily and efficiently complete software development. It is an excellent choice for fields such as smart agriculture and in-vehicle applications.

Characteristic

Equipped with a High-Computing-Power Processor

It is equipped with a new-generation CPU processor with 1TOPS super computing power; the GPU performance has been significantly improved to meet the real-time rendering needs of various 2D/3D images; the built-in 0.8TNPU can also implement lightweight artificial intelligence applications.



10.1-inch Large Display

Features a 10.1-inch 1024*600 large display with an expanded viewing area, allowing more information to be shown at once. With a brightness of up to 750 cd/m², it remains clearly visible even in strong outdoor light. 5-point touch ensures smooth and intuitive operation, balancing clear information display with smooth, responsive interaction.



Vehicle Power Supply

Features a wide 9–36 V DC input with direct vehicle cigarette lighter connectivity, enabling seamless compatibility with most vehicle models without modification. Integrated ACC Status Monitoring monitors the vehicle's ignition state. Automatically managing power supply to eliminate manual operation and prevent battery drain when the engine is off. Designed to deliver both operational convenience and the safety standards required for automotive environments.

Supports Centimeter-Level High-Precision Positioning

It supports centimeter-level high-precision positioning, enabling high-precision navigation of vehicles and real-time monitoring of the position information of equipment.

4G/5G Communication

It adopts a self-developed built-in antenna of Ping Ultra-Link, providing strong 4G/5G communication capabilities, effectively ensuring continuous signals in remote areas and communication speed in urban areas no less than that of consumer products.

Extreme Reliability

All Ping's smart in-vehicle hardware has passed various rigorous reliability tests and has an IP65 protection rating, which can adapt to complex operating environments such as extreme temperatures, strong light, and severe vibrations.

Easy Software Development

The CPComm cross-process bus architecture launched by Ping can provide customers with complete and practical back-end support, helping you easily complete software development in four steps, greatly improving software development efficiency and helping you focus more on the business itself.



Structural Dimension Drawing

(Dimension tolerance: $\pm 0.3\text{mm}$)





ITEM		SPECIFICATION
HARDWARE	4-core, 2.0GHz; 2G RAM (supports up to 8G); 16G ROM (supports up to 256G)	
OS	Android 11.0& Linux 5.10	
COMMUNICATION &INTERFACE	Carrier Network	4G /5G
	WIFI	2.4G
	BT	4.2
	Optional Radio Communication	Compatible with Harxon1018D Pin definition: Air baud rate: 9600/19200; Serial port baud rate: 9600/19200/38400/57600/115200; Multi-protocol compatibility: SOUTH/Trimtalk450s/High-Target/HUACE/Satel/Farlink
	GNSS	Optional meter-level/sub-meter-level/centimeter-level positioning board card
	RS232	2 ports
	RS485	1 port
	CAN	Supports up to 4 CAN ports
	ADC IN Detection	Supports up to 4 ADC IN detections, maximum input voltage 12V
	DC OUTPUT	Supports up to 5 DC OUTPUT 12V outputs
	100M Ethernet	1 port
	IO INPUT	Supports up to 5 IO INPUTs
	CP ISO BUS VT	Supported
	USB 2.0	1
AUDIO&VIDEO &SENNsing	AHD Camera	1080P2 + 1080P4 or 720P4 + 1080P4 or 720P*8
	CP AVM 360°	Supports CP AVM 360° surround view image
	Microphone	1
	External Speaker	1 (Requires customized interface board)
	Built-in Speaker	1
DISPLAY	Capacitive Touch Screen	10.1" capacitive touch screen, supports 5-point touch
	Brightness	750cd/m²
	Resolution	1024*600px
CONNECTOR	26PIN Connector	1
	GX12 Aviation Connector	4 (Optional)
	SMA Connector	1 (Optional)
	TNC Connector	2 (Optional)
	USB 2.0 Interface	1



SPECIFICATION	Dimension	(WHD): 281mm*181mm*42mm
	Weight	1.5kg
FUNCTION BUTTONS/INDICATOR LIGHS	Power Switch	1
	Customizable Function Button	2
ENVIRONMENTAL PARAMETERS	Protection Rating	IP65
	Vibration	MIL-STD-810
	Road Vehicle Standard	ISO16750
	Operating/Storage Environment	Operating temperature: -30°C - +70°C Humidity: 0% - 90%RH Storage temperature: -40°C - +85°C
	Salt Spray	The whole machine can withstand salt spray for 48 hours

Manufacturers may update parameters at any time, please refer to the latest product information.