

Access Control System

VIA
ACS

Fanless Ultra-Compact
Octo-Core ARM system for
Edge AI applications

Features

- High-performance MediaTek Genio 700 Octa-Core processor
- Integrated AI processor for Edge AI applications
- Dual-band 802.11ac Wi-Fi with Bluetooth 5.0
- 7 Inch TFT LCD with Multi-Touch panel
- Binocular camera



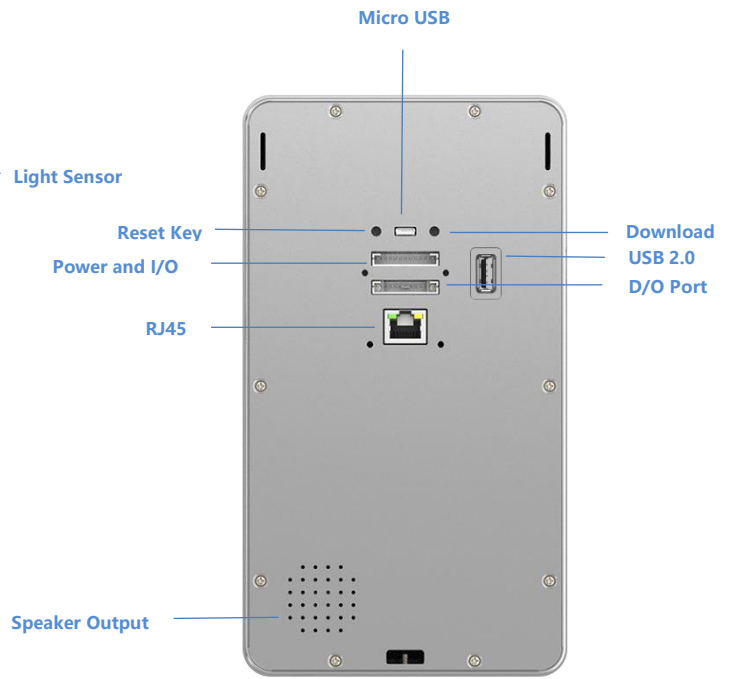
Specifications

Model Name	ACS-5000	ACS-5000 WG
Processor	MediaTek Genio 700 Octa-core Processor - MT8390 - Two Cortex-A78 @ 2.2GHz - Six Cortex-A55 @ 2.0GHz	
System Memory	8GB LPDDR4X SDRAM	
Storage	16GB eMMC Flash Memory	
Graphics	- ARM Mali-G57 MC3 High Performance GPU - Graphics engine supporting OpenGL® ES 1.1/2.0/3.2, OpenCL ES 2.2, and Vulkan 1.0/1.1 hardware acceleration - Supports H.265 and H.264 video decoding up to 4K@75fps - Supports H.265 and H.264 video encoding up to 4K@30fps	
Wireless Connectivity	MediaTek MT7663BSN 802.11a/b/g/n/ac Wi-Fi 2T2R / Bluetooth v5.0 Combo Chip	
LCD	1 7 Inch TFT LCD, 1200*1920, MIPI DSI (4Lane)	
Touch Panel	1 Multi-Point Capacitive touch panel	
Ethernet	1 10/100/1000Mbps ethernet	
NFC	1 ISO 14443 Type A/B	14443 Type A + Wiegand
Camera	2 MIPI 1080p/30fps FOV: D=69°, H=61°, V=37° (RGB+IR)	
Audio	1 Speaker 1W/8 ohm and 1 Microphone	
Light Sensor	1 Light sensor	
WatchDog Timer	1 MCU WatchDog Timer	
I/O	1 USB 2.0 Type A 1 RJ45 2 GPI Input (10mA) 1 GPO Output by Relay (max. 3A) 1 RS-485 1 Uart for debug 1 Micro USB for download FW	
Key	1 Reset Key 1 Download key	
Power Supply	12V DC-in	
Operating System	Android 13	
Operating Temperature	0~50 °C	
Operating Humidity	0~90% (Non-condensing)	
Dimensions	230mm (D)x 129mm (W)x 28 mm(H)	
Installation	Wall mount type or Gate installation type	

Front Panel



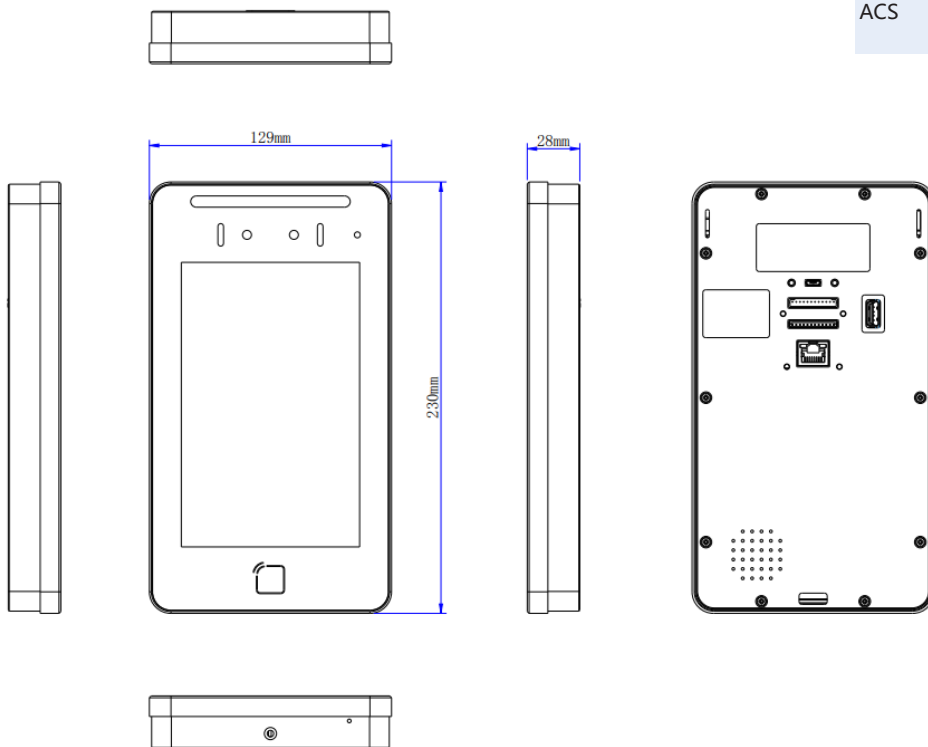
Rear Panel



Ordering Information

Part Number	SoC Frequency	Description
AIOT-ACS-01E07A0	MediaTek Genio 700 Octa-Core SoC @ 2.2GHz/2.0GHz	VIA SYSTEM FGI,AIOT ACS,A0A,GIFT BOX,SOM-5000(A0) CPU MT8390AV/AZA Dual-core,Cortex-A78 2.2GHz/Hexa-core Cortex- A55,2.0GHz,ACS-IO(A0),ACS-EXTEND(A0),ACS-ALS(A0) support 14443 A/B

Dimensions



Packing List

Items
ACS