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Advanced LCD Solutions Specialist

RUGGED MOBILE DEVICES



**TABLETS
SMARTPHONES
RUGGED DEVICES**

Rugged Tablets



Part Number	Size	IP Rating	Resolution	Operating System	Processor Speed
AG045-A-QH-4-3-IP67-V1	IP67	4.5	540 x 960	Android 5.1/7.0	1.44 - 1.84 GHz
AG055-A-H-4-3-IPNA-V1	IP67	5.5	1920 x 1080	Android 5.1/7.0	1.44 - 1.84 GHz
AG070-A-H-4-3-IP67-VB	IP67	7	1280 x 720	Android 5.1	1.5 GHz
AG070-A-WX-4-2-IP54-V1	IP54	7	1280 x 800	Android 6.0	1.5 GHz
AG070-A-WV-1-0-IP64-V1	IP64	7	800 x 480	Android 2.3	1 GHz
AG070-W-WV-1-0-IP64-V1	IP64	7	800 x 480	WinCE 7.0	1 GHz
AG070-L-WV-1-0-IP64-V1	IP64	7	800 x 480	Linux 2.6.35 + Debian 6	1 GHz
AG070-A-WV-2-1-IP64-V1	IP64	7	800 x 480	Android 5.5.1	1 GHz
AG070-W-WV-2-1-IP64-V1	IP64	7	800 x 480	WinCE 7.0	1 GHz
AG070-L-WV-2-1-IP64-V1	IP64	7	800 x 480	Linux Debian 8	1 GHz
AG070-A-H-4-3-IP65-V1	IP65	7	1280 x 720	Android 5.1	1.3 GHz
AG070-A-WX-4-2-IP67-V1	IP67	7	1280 x 800	Android 6.0	1.3 GHz
AG070-A-WX-4-2-IP67-VB	IP67	7	1280 x 800	Android 6.0	1.33-1.8 GHz
AG070-A-HD-4-3-IP67-V1	IP67	7	1280 x 720	Android 5.1	1.44 GHz
AG070-A-WX-4-2-IP68-V1	IP68	7	1280 x 800	Android 5.1	1.44 GHz
AG070-L-WS-4-1-IP65-V1	IP65	7	1024 x 600	Linux Debian	1.6 GHz
AG080-A-WX-4-4-IP67-V1	IP67	8	1280 x 800	Android 5.1	1.44 - 1.84 GHz
AG080-W-WX-4-4-IP67-V1	IP67	8	1280 x 800	Windows 10 Home	1.44 - 1.84 GHz
AG080-W-WX-4-2-IP67-V1	IP67	8	1280 x 800	Windows 10 Home	1.33-1.84 GHz
AG080-A-F-8-3-IP68-V1	IP68	8	1280 x 800	Android 7.0	2.16 GHz
AG080-A-F-8-3-IP68-V2	IP68	8	1280 x 800 Pixels	Android 7.1	2.16 GHz
AG080-A-WX-4-1-IP68-V1	IP68	8	800 x 1280	Android 5.1	2.16 GHz



NOTE: specifications subject to change without notice.

Rugged Phones



RUGGED DESIGN

- + WATERPROOF
- + DROPPROOF
- + DUSTPROOF

TOUCHSCREEN

- + CAPACITIVE
- + MULTI TOUCH
- + IPS TECHNOLOGY

HIGH PERFORMANCE

- + HIGH DEFINITION
- + IP RATED
- + MULTI-CAMERA

NOTE: specifications subject to change without notice.

AG055S-A-H-8-2-IP68-V1



CPU: Qualcomm MSM8953 Octa-core 2.0GHz
Operation System: Android 7.1, Android 8.1 in the future
Display: 5.5 inch Capacitive Multi-touch IPS HD 1280x720 FHD screen, 1920x1080 is optional
TDD-LTE: B39/B40/B41=1900/2300/2500 Mhz; **FDD LTE:** B1/B3=2100/1800 Mhz
Two Cameras: Front 5.0 M camera, Back 13.0 M Camera
Memory & Storage: 2G RAM + 16G ROM, 4G RAM+64G ROM is optional
WIFI: 802.11 a/b/g/n wireless and Bluetooth 4.2
Navigation and Location: Support GPS / Glonass / Beidou
Battery: Built-in 5000 mAh Lithium Battery
Sensors: G-sensor, Gyro-sensor, Compass-sensor
Rugged Durability: Waterproof and dustproof rate: IP68;
Ruggedness: comply with 810G
PSAM Card Slot: 1* PSAM slot is optional

Face recognition (software): optional; work with ID Card
Built-in infrared module to collect electric meter data: send and receive frequency: 38 KHz, send and receive angle: +/- 45 degree, distance >=10 Meters, sending max power: 160mw; optional
Walkie-talkie phone: digital + analog 2 in 1, is optional; infrared and walkie-talkie, pick one of two
NFC Module: Frequency is 13.56 Mhz is optional
Fingerprint scanner: capacitive fingerprint scanner 508DPI, FBI certificated, optional
2D Barcode scanner: optional
ID card reader module: is optional; ID card and UHF RFID only pick one of two
Back-clip UHF RFID: readable distance is about 3-5Meters, Optional; R2000 Module is also optional
I/O Ports: 1*MICRO USB, 1*SIM Slot, 1*PSAM Slot (optional), 1*RS485 Communication port (optional)



NOTE: specifications subject to change without notice.

AG052S-A-F-8-6-IP68-V1

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SPECIFICATIONS

CPU	Mediatek MTK6757 Helio P25 Octa-core Cortex-A53 2.5 GHz
Operating System	Android 8.1
Display & Touch	5.2 inch capacitive multi-touch screen, IPS FHD 1920x1080 pixels
Cameras	Front 8 M camera, back 21 M Camera
Memory & Storage	6 GB RAM + 64 GB ROM
WIFI	802.11 a/b/g/n 2.4G+5G Dual-band wifi wireless and bluetooth 4.0

Dual SIM Card	Support
Battery	5580 mAh Lithium Battery
Rugged Durability	IP68 waterproof and dustproof, drop- proof rate: 810G
Sensors	G-sensor, light sensor, proximity sensor, E-Compass, gyroscope sensor, geomagnetism
NFC Function	Frequency is 13.56 MHZ
Fingerprint	Support
Dimensions	164x81x15.5 mm

NOTE: specifications subject to change without notice.

AG055S-A-F-8-4-IP68-V1



SPECIFICATIONS

CPU	MTK6755 Octa-core Cortex-A53 2.0GHz	PTT Function	Support
Operating System	Android 7.0	GPS	Support GPS & GLONASS or GPS+Beidou
Display & Touch	5.5 inch Capacitive Multi-touch screen,IPS FHD 1920*1080 Pixels	Tri-Proof Rate	IP68 Waterproof and dustproof, Drop-Proof Rate: 810G
Cameras	Front 8M pxls, back 16M pxls	Sensors	G-sensor, Light sensor, Proximity sensor, E-Compass, Pressure sensor, Gyroscope Sensor
Memory & Storage	4GB RAM + 64GB ROM, micro SD card slot can support max 128GB TF card	NFC function	Frequency is 13.56MHZ
WIFI	802.11 a/b/g/n 2.4G+5G Dual-band wifi wireless and bluetooth 4.0	Fingerprint	Support
Battery	6150 mAh Lithium Battery		

NOTE: specifications subject to change without notice.

AG055S-A-H-8-4-IP68-V1



SPECIFICATIONS

CPU	Mediatek MTK6750T Octa-core Cortex-A53 1.5GHz
Operating System	Android 8.0
Display & Touch	5.5 inch Capacitive Multi-touch screen, IPS FHD 1440x720 Pixels
Cameras	Front 5Mpxls camera, back 13M+8Mpxls dual camera
Memory & Storage	4GB RAM + 64GB ROM
WIFI	802.11 a/b/g/n 2.4G + 5G Dual-band wifi wireless and bluetooth 4.0
Rugged Durability	IP68 Waterproof and dustproof, Drop-Proof Rate: 810G
Sensors	G-sensor, Light sensor, Proximity sensor, E-Compass, Gyroscope Sensor, Geomagnetism
Fingerprint	Support
Dims & Weight	161.3x77.8x14.2 mm



NOTE: specifications subject to change without notice.

AG050S-A-F-8-3-IP68-V1



- CPU: Mediatek MTK6750 Octa-core 1.5GHz
- Operation System: Android 7.0 or 8.1
- Display: 5 inch Capacitive Multi-touch screen, IPS FHD 1920x1080 Pixels
- Two Cameras: Front 5Mpxls camera, Back 13Mpxls camera
- Memory & Storage: 3GB RAM + 32GB ROM, 4G RAM + 64G ROM is optional
- Wireless Network: 802.11 a/b/g/n 2.4G+5Ghz Dual-band wifi wireless and bluetooth 4.0
- Dual Sim Card: Support

- GPS: Support GPS and GLONASS
- Battery: Built-in 5000 mAh Lithium Battery
- Tri-Proof Rate: IP68 Waterproof and dustproof, DropProof Rate: 810G
- Sensors: G-sensor, Light sensor, Proximity sensor, E-Compass, Gyroscope Sensor
- NFC function: Frequency is 13.56 MHz
- SOS Function: Support
- PTT Function: Optional
- Dimension: 152x77x16.5 mm



NOTE: specifications subject to change without notice.

AG057S-A-F-8-6-IP68-V1

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SPECIFICATIONS

CPU	Mediatek MTK6763 Octa-core Cortex-A53 2.0GHz	GPS	Support GPS & GLONASS or GPS + Beidou
Operating System	Android 8.1	Battery	5000 mAh lithium battery
Display & Touch	5.7 inch capacitive multi-touch screen, IPS FHD 2160x1080 Pixels	Rugged Durability	IP68 waterproof and dustproof, drop-proof rate: 810G
3 Cameras	Front 8M pxls, back 13M + 5M pxls dual camera	Sensors	G-sensor, light sensor, proximity sensor, E-Compass, gyroscope sensor
Memory & Storage	6GB RAM + 128GB ROM, micro SD card slot can support max 128GB TF card	NFC Function	Frequency is 13.56 MHZ
WIFI	802.11 a/b/g/n 2.4G+5Ghz Dual-band wifi wireless and bluetooth 4.2	Fingerprint	Support
		PTT Function	Support
		Dimensions	167x78x13.8 mm



NOTE: specifications subject to change without notice.

AG059S-A-F-8-4-IP68-V1



SPECIFICATIONS

CPU	Mediatek MTK6763T Helio P23 Octa-core 2.5GHz
Operating System	Android 8.1
Display & Touch	5.99 inch capacitive multi-touch screen, IPS FHD 2160x1080 Pixels
Cameras	Front 8M pxls, back 13M + 8M pxls dual camera
Memory & Storage	4GB RAM + 64GB ROM
WIFI	802.11 a/b/g/n 2.4G+5G Dual-band wifi wireless and bluetooth 4.0
Dual SIM Card	Supported
GPS	Support GPS and GLONASS
Battery	5500mAh Lithium Battery
Rugged Durability	IP68 Waterproof and dustproof, Drop-Proof Rate: 810G
Sensors	G-sensor, Light sensor, Proximity sensor, E-Compass, Gyroscope Sensor, Geomagnetism, Barometer, Coulometer
Fingerprint	Support
NFC Function	Frequency is 13.56 MHZ



AG055S-A-H-4-3-IP67-V1



DESIGN

- + WATERPROOF: CLASS 7 (IEC 60529)
- + SHAKE-PROOF: 1-19 HZ/1.00 MM; 19-200 HZ/1.0 G
- + DROP-PROOF: MIL-STD-810C/METHOD 516.6/PROCEDURE IV
- + DUST-PROOF: CLASS 6 (IEC 60529)

TOUCH TECHNOLOGY

- + TOUGHENED GLASS WITH CAPACITIVE TOUCHSCREEN
- + GLOVED HAND SUPPORT
- + ACTIVE CAPACITANCE PEN

HIGH PERFORMANCE

- + SUNLIGHT READABLE DISPLAY; 500 CD/M²
- + LONG BATTERY LIFE, 6000 MAH BATTERY
- + LOW TEMPERATURE OPERATION

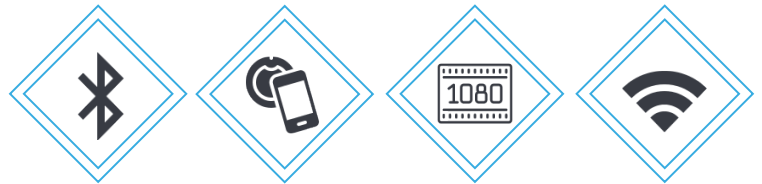
NOTE: specifications subject to change without notice.

Specifications



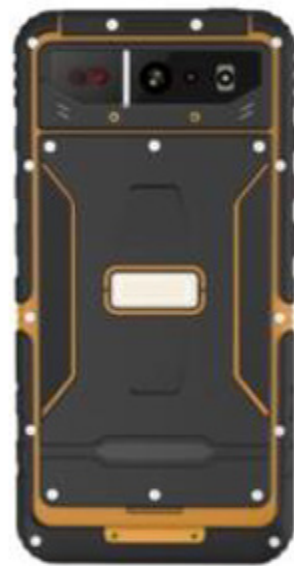
DESCRIPTION

AGD's mobile IOS terminal is a 5.5" ruggedized mobile device made to withstand the daily grind in your industrial application. With toughened glass and a titanium alloy material frame, it can withstand a drop of up to 1.8m and a 2 ton shock pressure test. This mobile device gives you sunlight readability and operations under extremely low temps. High integration, high performance, high reliability, high flexibility design.



FEATURES

- 500 cd/m² full view display
- toughened glass TP
- Aero-grade titanium alloy frame
- MIL STD 810C/Method 516.6/Procedure IV
- 1.8m drop
- 2 ton shock pressure test
- 6000 mAh battery
- MA/3C /FCC/CE/ROHS



NOTE: specifications subject to change without notice.

Specifications



CPU

1.5G Hz x4 A53 Quad core 64bit
2.4G Hz x10 Cortex A72 Quad Core 64bit

RAM/ROM

TWO-IN-ONE:3G+32G EMCP
TWO-IN-ONE:4G+64G EMCP

DISPLAY

5.5 inch IPS/AFFS 1080*1920 FHD industrial 500 CD/M2
Sunlight Readable

TOUCH PANEL

Capacitive / toughened glass TP, support glove touch/
spray/Active capacitance pen

BASIC FUNCTION

2G/3G/4G/BT/GPS/WIFI/FM/ Axis Accelerometer Gravity
Sensor/Rotation Vector Sensor/Magnetic Field Sensor/
Gyroscope Sensor

EXTENDED FUNCTION

LF/UHF RFID/ NFC/GPS+GLONASS

CAMERA

13.0MP(AF) with flash LED

WIFI/BT

(2.4GHz/5Ghz) 802.11 a/b/g/n
BT v2.1+EDR/BT 3.0+HS / BIT v4.0 (LE)

WIFI/BT

2G/3G/4G Band: GSM (B2/3/5/8), WCDMA
(B1/2/5/8), TDSCDMA (B34/39), TD-LTE
(B38/39/40/41), FDD LTE (B1/2/3/4/5/7/20), EVDO,CDMA
1X



NOTE: specifications subject to change without notice.

Specifications



HARDWARE

Chipset	ARM Cortex A53 Quad Core 1.5G Hz x4 ARM Cortex A72 2.4G Hz X10 Deca-core**
SIM card	1.8/3.3V SIM card / dual card

DISPLAY & INPUT

Main Display	5.5" AFFS/IPS LCD 1080x1920 FHD industrial 500 cd/m2 Sunlight Readable
Touch Panel	G+G Capacitive screen

BATTERY & IO

Battery	6000 mAh
Earphone	3.5 mm
Charger	USB Type-C
Data Interface	USB Type-C 24 pin

CAMERA & MEMORY

Main Camera	13.0 MP (AF) with flash LED /5.0MP + 13.0 MP
Internal Memory	3G B RAM + 32 GB ROM EMCP or 4GB RAM + 64 GB ROM EMCP**
External Memory	Micro SD card (T-FLASH card), max 128GB



NOTE: specifications subject to change without notice.

Specifications



INDUSTRIAL & RELIABILITY

Shake-proof	1-19Hz/1.0mm; 19-200Hz/1.0g MIL-STD-810G/Method516.6/Procedure IV
Drop-proof	
Waterproof	Class 7 (IEC 60529)
Dustproof	Class 6 (IEC 60529)
Reliability	MTBF>50000h; MTTR<0.5h
Operating Temp	-20°C to 55°C
Storage Temp	-40°C to 80°C
RH	5% to 95%
Operating Altitude	Max: 4,500 m (15,000 feet)



NETWORK

Call	GSM /WCDMA/TD-SCDMA/CDMA 1X WCDMA 3.75G (HSDPA+ 42.2Mbps, HSUPA+ 11.5Mbps),TD-SCDMA
3G Data	
4G Data	FDD: Up to 150Mbps downlink, 50Mbps uplink - TDD: Up to 150Mbps downlink, 50Mbps uplink
WIFI	Dual-band (2.4GHz/5GHz) single stream 802.11 a/b/g/n MAC/BB/RF
Certification Support	MA/3C/FCC/CE/ROHS

GPS/SENSOR/IOS

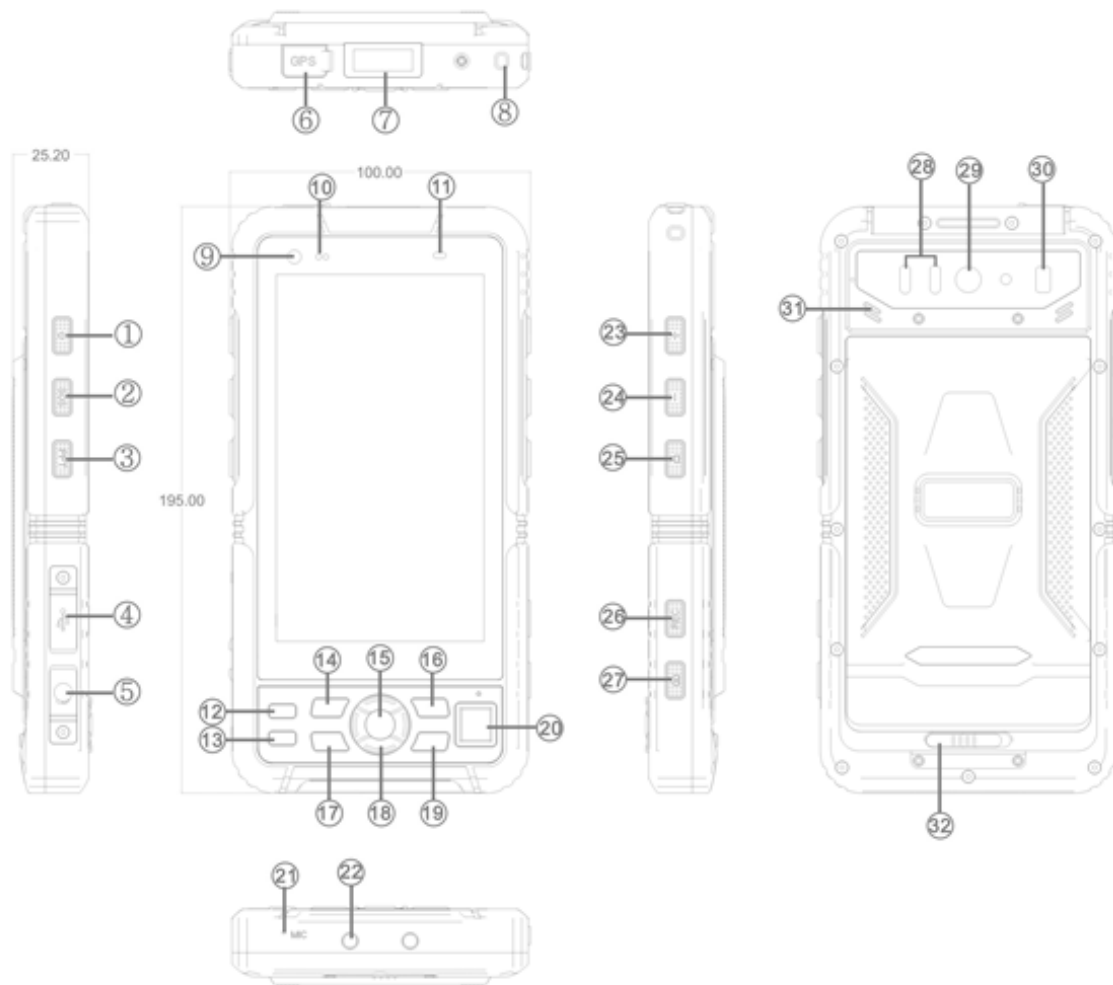
ISO	Android 5.1/7.0 UP* , Android 6.0**
GPS	GPS + Glonass + AGPS or GPS + Beidou + AGPS*
Supported Sensors	Motion Sensor, Magnetic field sensor, Acceleration sensor, Proximity sensor, Gravity sensor, Gyro sensor, Opto sensor, Rotation vector sensor

OTHER

Size	195x98x22 mm (LWH)
Weight	460g
Warranty & OEM	Support OEM, warranty 24 months USB cable x1, charger 5V 2.1A x1, user guide x1, tool bag x1, screen protector x1
Package	
Certification Support	MA/3C/FCC/CE/ROHS

NOTE: specifications subject to change without notice.

Technical Drawings



HARDWARE

1	Power button	9	Front camera	17	Back button	25	Scan button
2	SOS button	10	Light sensor	18	Logic button	26	REC
3	PTT button	11	LED	19	Search button	27	Camera button
4	USB cover	12	Delete button	20	Fingerprint (optional)	28	38K (optional)
5	Earphone cover	13	Custom button	21	MIC	29	Rear camera
6	GPS cover	14	Home button	22	Charge pogo pin	30	Flash LED
7	Scanner (optional)	15	Confirm button	23	Volume up	31	Speaker
8	Fixed	16	Menu button	24	Volume down	32	Battery Lock

NOTE: specifications subject to change without notice.