



Features

- Cortex-A53 quad core 1.5Ghz
- LTE/GPRS, LAN, WiFi and BL/BLE connectivity
- GNSS
- Support of Linux: Ubuntu
- 512GB SSD/HDD hard disk
- 2 x RS485
- 4 x USB host
- HDMI 2.0 with 4k display support
- Wide power supply range up to 36V
- DIN rail mounting
- Aluminium enclosure, fanless design

The AG-1701 is multipurpose Industrial Computer with inbuilt SSD/HDD storage for data. It based on four core ARM A53 64bit processor.

The LTE module is in standard mini PCIe type and can be changed according to customer needs.

The powerful processor, wide power supply range up to 36V and extended temperature range from -25°C up to +85°C is perfect choice for industrial control systems.

Description	Parameter
Processor	
ARM	Cortex A53 quad core
Target frequency	1.5GHz max.
RAM	
Memory size	2GB (4GB optional)
Memory type	LPDDR4
Graphics	
HDMI	HDMI 2.0
Graphics processor	G31 MP2; Supports OpenGL ES3.2, Vulkan 1.1, OpenCL 1.2
Support	Video processor: H.265 video decoder 4K@30fps, H.264 video decoder 4K@30fps, VP9 video decoder 720p@30fps, H.264 video encoder 1080p@60fps, MJPEG/JPEG Baseline encoder 4K@15fps
Internal Storage	
MicroSD card	Inside the body

Description	Parameter
eMMC	16Gb (optional 64Gb)
USB	
USB port number	4
USB type	USB 2.0
Connector	USB type A (horizontal)
Protection	IEC 61000-4-2 level 4: - 15 kV (air discharge) - 8 kV (contact discharge)
USB overload	1.6A common to 2 port.?
USB OTG	
USB port number	1
USB type	high-speed USB OTG
Connector type	Mini USB
Serial RS485	
Port number	2
Interface Type	RS485
Data Rate	600bps ~ 921600bps?
Signals	A and B

Description	Parameter
Connector	Pluggable screw socket
Protection	IEC 61000-4-2 (ESD) ±15kV (air), ±8kV (contact) IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 12A (8/20µs)
SSD/HDD parameters	
SSD/HDD number	1
SSD/HDD type	2.5" SATA, max height 18mm
Storage type	SSD 480/512GB SATA (other size available on request)
Internal Interface type	SATA
S.M.A.R.T	Support Passthrough S.M.A.R.T command
LTE/GSM Interface¹	
Band LTE FTD	B1/B3/B5/B8
Band LTE TDD	B34/B38/B39/B40/B41
Band GSM	900/1800MHz
GPRS Slot	Multi-slot class 12/10
Link	GPRS class 12: max. 85.6 kbps (downlink/uplink)
Power	Compliant to GSM phase 2/2+ – Class 4 (2 W 900MHz) – Class 1 (1 W 1800MHz)
SIM card	MicroSIM, push-pull type holder 3V/1.8V
Antenna Connector	SMA female
GNSS²	
GNSS Systems	GPS, BAIDOU (GPS / GLONASS / BDS / Galileo ³)
Antenna Connector	SMA female
Ethernet	
Number	1
Type	1-CH 10/100/1000M
Ethernet Connector	RJ45 with LED indicators
WiFi	
Data speed	Up to150Mbps
Bands	2.4GHz and 5GHz, 20MHz/40MHz
Frequency 2.4GHz ISM	2.400 GHz – 2.497 GHz (2.4Ghz ISM band)
Frequency 5GHz ISM	4.900 GHz – 5.845 GHz
Standards	802.11a/b/g/n/ac/ax
Modulation schemes	BPSK, QPSK, 16 QAM, 64 QAM, 1024 QAM

¹ AG-1701-LT basic model specifications. For EU and GL models please contact support.

² only models with LTE module

³ GL and EU models only

Description	Parameter
Security	WEP, TKIP, and AES, WPA, WPA2
Bluetooth and BLE	
Bluetooth standard	BT 5.0, 3Mbps
Number of channels	BR/EDR: 79 channels, BLE 40 channels
Frequency range	2402MHz – 2480MHz
Modulation	FHSS, GFSK, DPSK, DQPSK
System Functions Indicators	
Indicators	ACT – activity, LTE, SDD, ON
System	
Operating systems	Ubuntu Linux
Booting source	eMMC, microSD
Power Supply	
Power Voltage range	8-36V DC
Power consumption	8W average with SSD storage
Connector	3 pin (+, -, earthing) pluggable screw socket
Protection	Surge protection
Physical Characteristics	
Installation	DIN-Rail, clamp
Housing	Aluminium
Weight	~ 1kg
Dimensions	135mm x 168mm x 38mm
Environmental Specification	
Operating Temp.	-25 ~ 85°C (-13 ~ 158°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 176°F)
Ambient RH	5% to 95% (non-condensing)



Ordering information

Models		Hardware Options					
Model	Cellular Network			GNSS	Internal Memory		RAM
AG-1701	GPRS	3G	LTE		16GB	64GB	2GB 4GB
AG-1701					✓		✓
AG-1701-LT	✓		✓	✓	✓		✓
AG-1701-GL	✓	✓	✓	✓	✓		✓
AG-1701-4						✓	✓
AG-1701-4-GL	✓	✓	✓	✓		✓	✓

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