TECHNICAL SPECIFICATION



Computer / Gateway / Data Logger

AG-1701



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.

changed according to customer needs.							
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						
еММС	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 hight 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						
Silvi card	3V/1.8V						
Antenna Connector	SMA female						
	GNSS ²						
GNSS Systems	GPS, BAIDOU (GPS / GLONASS / BDS / Galileo ³)						
Antenna Connector	SMA female						
	Ethernet						
Number	1						
Туре	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						

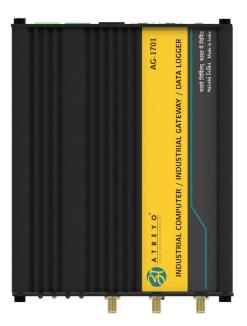
Description	Parameter						
Security	WEP, TKIP, and AES, WPA, WPA2						
Bluetooth and BLE							
Bluetooth standard	uetooth standard BT 5.0, 3Mbps						
Number of channels	BR/EDR: 79 channels, BLE 40 channels						
Frequency range	2402MHz - 2480MHz						
Modulation	FHSS, GFSK, DPSK, DQPSK						
System Functions Indicators							
Indicators ACT – activity, LTE, SDD, ON							
System							
Operating systems	Ubuntu Linux						
Booting source	eMMC, microSD						
P	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						
Physic	cal Characteristics						
Installation	DIN-Rail, clamp						
Housing	Aluminium						
Weight	~ 1kg						
Dimensions	135mm x 168mm x 38mm						
Environmental Specification							
	-25 ~ 85°C (-13 ~ 158°F)						
Operating Temp.	25 05 0 (15 150 1)						
Operating Temp. Storage Temp.	-40 ~ 85°C (-40 ~ 176°F)						

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









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	√		√	√	√		\checkmark	
AG-1701-GL	√	√	√	\checkmark	√		√	
AG-1701-4						\checkmark		√
AG-1701-4-GL	√	√	√	\checkmark		√		√

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