TECHNICAL SPECIFICATION

ATREYO ®
SOLUTIONS THAT SIMPLIFY

Industrial Computer	AIC-1720

Features

- **Cortex-A53 quad core 1.5Ghz**
- **Up to 4GB RAM**
- **Ethernet 1000Mbps**
- **OS support: Ubuntu Linux**
- **SSD/HDD SATA**
- **2 x RS485**
- **4 x USB host**
- **HDMI 2.0 with 4K display support**
- **Wide power supply range up to 36V**
- **Aluminium enclosure, fanless design**

The AIC-1720 is multipurpose Industrial Computer with inbuilt SATA storage for data. It is based on four core ARM A53 64bit processor.

This computer in addition to industrial use, due to it is built on an automotive class processor it can be used as a media controller in vehicles and at communication stations.

Description	Parameter
Processor	
ARM	Cortex A53 quad core
Target frequency	1.5GHz max.
RAM	
Memory size	2GB/4GB– refer model structure chart)
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	
eMMC	16/32/64GB (optional 8GB)

Description	Parameter
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	2A (common to 4 ports)
Serial interface	
Port number	2
Interface Type	RS485
Data Rate	600bps ~ 921600bps
Signals	A and B
Connector	Pluggable screw socket
Protection	IEC 61000-4-2 level 4: – 15 kV (air discharge) – 8 kV (contact discharge) MIL STD 883C-method 3015-6: class 3. (human body model)
SSD parameters[1]	

1 In 'IS, IH' models only

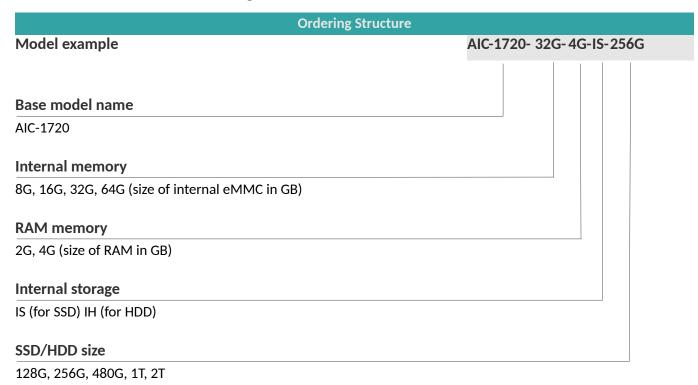| Description	Parameter
SSD number	1
Storage type	SSD/HDD SATA (for capacity refer model structure chart)
Internal Interface type	SATA
Ethernet	
Number	1
Type	1-CH 10/100/1000M
Ethernet Connector	RJ45 with LED indicators
System Functions Indicators	
Indicators	ACT – activity, SDD, ON
System	
Operating systems	Ubuntu Linux
Booting source	eMMC
Power supply	

Description	Parameter
Power Voltage range	6-36V DC
Power consumption	8W average with SSD storage
Connector	3 pin (+, -, earthing) pluggable screw socket
Protection	Surge protection
Physical characteristics	
Installation	Clamp
Housing	Aluminium
Weight	900g
Dimensions	135mm x 168mm x 38mm
Environmental specification	
Operating Temp.	-25 ~ 75°C (-13 ~ 167°F)
Storage Temp.	-40 ~ 85°C (-40 ~ 185°F)
Ambient RH	5% to 95% (non-condensing)

Selected model list

Models	Hardware Options[2]							
AIC-1720	**Internal Memory**			**RAM**		**SSD**		
	16GB	**32GB**	**64GB**	**2GB**	**4GB**	**256GB**	**480GB**	**1TB**
AIC-1720-16G-2G	√			√				
AIC-1720-16G-2G-IS256G	√			√		√		
AIC-1720-64G-4G			√		√			
AIC-1720-64G-4G-IS480G			√		√		√	

Table with model structure for ordering

Ordering Structure

Model example AIC-1720- 32G- 4G-IS- 256G

Base model name

AIC-1720

Internal memory

8G, 16G, 32G, 64G (size of internal eMMC in GB)

RAM memory

2G, 4G (size of RAM in GB)

Internal storage

IS (for SSD) IH (for HDD)

SSD/HDD size

128G, 256G, 480G, 1T, 2T

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2 Other option available on special order, please refer to ordering structure chart

For more details
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