

ADQUIO MICRO SERVER

Programmable controller, actuator and datalogger



1 Ordering information

Reference	Description	Life cycle *
ADQ-MSIN01	Adquio mini server, Java Script programmable controller, 1 WAN, 4 USB, 1SD	Active



* For planning and commissioning of new installations use modules in Active state only

2 Dimensions



3 Technical data

Parameter	Value
Process voltage	
Connections	Removable terminal block 5.08 Pitch 2 contacts
Nominal value	12 to 19 VDC
Maximum supported	19 VDC
Consumption	
From included 12V power supply	2,8 mA
Maximum consumption	3 A
Maximum consumption peak at start-up	3 A



CAUTION!

Exceeding the maximum power supply voltage for the process or supply voltages could cause irrecoverable damage to the system. The system could be destroyed.

! **CAUTION!!**
 Improper connection cables cause overheating at the terminals.
 Acquio pro, they can be destroyed if the wrong cable type, cable size or cable temperature rating is used.

3.1 System data

Parameter		Value
Processor		
	Model	Intel® Celeron® J4005
	Frequency	2 GHz
	Turbo frequency	2.7 GHz
	Number of cores	2
	Number of threads	2
	Lithography	14nm
	Size of cache	4 MB
	TDP	10 W
	Memory max bandwidth	38,4 GB/s
	Max CPU number	1
	Technologies supported	VT-d, VT-x, PPT, AES
Memory		
	Type of memory	SO-DIMM
	Slot number	2
	Maximum supported memory	8 Gb
	Memory clock frequency	2400 MHz
	Type of memory	DDR4-SDRAM
	Number of memory channels	Dual-channel

	Max bandwidth	38,4 GB/s
	Voltage	1.2 V
Memory Card		
	Type	SDXC with UHS-I support
Storage		
	Type	SDD
	Capacity	250 Gb
	Connection type	SATA III
	Disk type supported	2.5"
	Max storage units	1
Graphics		
	Chipset	Intel
	Graphic adapter	Intel® UHD Graphics 600
	Max screens supported	2
	Output version	HDMI: 2.0a
Audio		
	Speakers included	No
	Number of audio channels	7.1
	Connector type	Jack 3.5 mm
Connections		
	Wifi	Yes
	Standard	Wi-Fi 5 (802.11ac)
	Frequency	2,4 and 5 Ghz
	Model of controller	Intel Dual Band Wireless-AC 9462
	Ethernet	Yes
	Controller	Realtek RTL8111H-CG

	Type of port	RJ-45
	Number of ports	1
	Communication speed	1 Gb / s
	Bluetooth	Yes
	Type	5.0
	USB Ports	Yes
	Type of ports	USB A
	Number of ports	4
	USB 3.2 Gen 1	1
	USB 3.1 Gen 1	3
	Infrared Sensor	Yes

4 System data

4.1 Environmental conditions

Parameter	Value
Temperature	
Operation	0 ° C ... +60 ° C (horizontal mounting)
Storage	-40 ° C ... + 70 ° C
Transport	-40 ° C ... + 70 ° C
Humidity	Max. 95% non-condensing
Air pressure	
Operation	> 800 hPa / <2000 m
Storage	> 600 hPa / <3500 m
Insulation	IP20

4.2 Protocols

Parameter	Value
Modbus	TCP Client and server
BACnet	TCP
MQTT	Ethernet
Casambi	API

4.4 Storage

Parameter	Value
SSD internal disk	250Gb

4.5 Certifications

Parameter	Value
All regions	Intel Declaration of Conformity MDDS UL 69732 UL 699868
Australia/New Zealand	4268 Certificate ARPANSA Certificate CISPR 32 Certificate
China	CCC EMC Safety Certificate
US	Energy Star

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