

Specification Document

Product Name: Linux Micro Appliance Server

Model: MA-S120/GLA

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1. GENERAL DESCRIPTION

- Power saving (minimum: approx. 1.25mA in sleep mode, etc.)
- Multi-carrier LTE communication module installed
- Ether, RS-232, RS-485, DIO, and SD card slot are standard features
- Equipped with a sub-microcomputer (FeRAM built-in)
- Input voltage monitoring function
- Built-in input voltage monitoring function
- Script writable in boot loader Input voltage monitoring function
- Scripts can be written in the boot loader
 - * Simple processing such as data measurement of connected sensors is possible by starting the boot loader alone
- The on-board capacitor supports instantaneous power failure backup function

2. TECHNICAL DESCRIPTION

1) Specifications:

Model		MA-S120/GLA
Encryption processing		Specialized hardware
LAN	Ethernet	Ethernet x 1port
	interfaces	100BASE-TX/10BASE-T (RJ-45)
Console port	Interface	USB 2.0 Full-Speed device (USB-Serial port)
	Number of ports	1
	Connector	USB micro B
	USB-Serial device	FTDI FT234XD (TXD/RXD, No hard-flow control)
	Maximum transfer rate	115.2 kbps
SD Card slot		1
Serial port (RS-232C)	Interface	TIA/EIA-232 (RS-232) Serial port
	Number of ports	1
	Connector	D-SUB (9 Pin-Male)
	Maximum transfer rate	115.2 kbps
	Transfer mode	Full duplex
	Modem signals	DTE (DTR, DSR, CTS, RTS, CD, RI)

Serial port (RS-485)	Interface	TIA/EIA-485 (RS-485) Serial port
	Number of ports	1
	Connector	Screw less terminal block (5 Pin)
	Maximum transfer rate	115.2 kbps
	Transfer mode	Half duplex
	Termination resistance	120 Ω (internal)
Digital input / output port		Digital input 4ch, Digital output 2ch (Screw less terminal block)
Analog input port		Analog input 2ch (Screw less terminal block)
CPU		Microchip ATSAM5D26 (ARM Cortex-A5 core) (Clock frequency: 500MHz)
OS		Linux
Approvals and compliance	VCCI	Class A compliant
	FCC	Class A compliant
	RoHS directive	○
Physical dimensions and weight	Dimensions	137mm(W) × 93mm(D) × 32mm(H)
		※ Exclusion: umbo
	Weight	420g
Environmental	Power supply	DC 9-36V
	Electrical power consumption	4.5W
	Environmental operating range	-20°C~60°C, 10%~90% (noncondensing)
External power supply	Output voltage	DC +12V ± 10% DC +24V ± 10%
	Output current	60mA (Maximum)
	Protection function	Over current protection
	Withstanding voltage	DC 500V (1 minute) * Between external terminals and internal circuits.
	Connector	Screw less terminal block (3 Pin)
Mobile wireless communication modules	LTE Category	LTE Cat.4
	Module	Quectel EG25-G * Please refer to the attached sheet for details. * GNSS: Not support (Quectel_EG25-G_LTE_Standard_Specification_V1.2.pdf)

Input Rating: 9-36Vdc, 0.5A