IEC 62056-21 converter to Modbus RTU and TCP
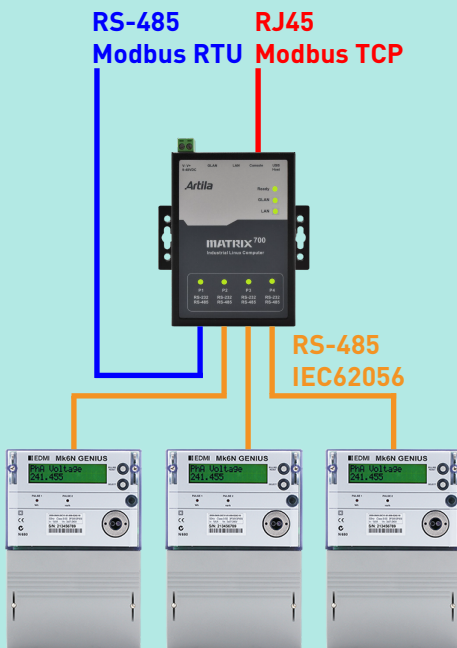
Matrix

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DESCRIPTION

Matrix based on ARM Cortex-A5, is a Linux-ready Industrial IoT(IIoT) RS-485 IEC62056-21 (former IEC61107) to Modbus RS - 485 RTU/TCP converter. Matrix is used as a gateway/bridge in building and industrial networks where it is needed to read IEC62056-21 (mainly electricity meters) in Modbus RS-485 RTU based SCADA systems. Matrix can connect up to 3 IEC62056-21 devices in its network. It is mounted on standard M36 DIN rail and comes with both Modbus RTU and TCP.

FEATURE

• 3 x RS-485 can connect up to 3 IEC62056-21 devices (three energy meter)
• ATMEL Cortex-A5 ATSAMA5D35 536MHz CPU
• Linux kernel 4.9.x with file system
• 512MB LPDDR2 SDRAM
• 1 x Gigabit Ethernet and 1 x 10/100Mbps Ethernet
• 4 x RS-232 / 485 serial ports
• Ultra-low power consumption, less than 3 Watts

APPLICATION

RS-485 Modbus RTU   **RJ45 Modbus TCP**

RS-485 IEC62056

TECHNICAL SPECIFICATION

Electrical Parameter	
Number of IEC62056-21 devices	3
Number of IEC62056 registers per device	64
IEC62056 interface baud rate	300, 1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k, 57.6k, 115.2k bps, 7 bit Even
RS-485 Modbus RTU interface baud rate	300, 1.2k, 2.4k, 4.8k, 9.6k, 19.2k, 38.4k, 57.6k, 115.2k bps, 8 bit None
RJ45 Modbus TCP interface	TCP/IP 10/100Mbps, Port 502
Display	7 LEDs (System Ready, Giga LAN, LAN and Serial Port)
Power supply voltage	+9V~+48Vdc (terminal block)
Typical Power Consumption	200mA@12VDC

Mechanical Parameter	
Real-time Clock(RTC)	Yes
Buzzer	Yes
Watchdog	Yes
Operating Temperature	0~70°C (32~158°F)
Dimensions (W x L x H)	78 x 108 x 24mm
Weight	324g
Regulation	CE Class A, FCC Class A
Installation	Wall mounting, DIN-rail mounting (with optional kit)