Programmable Device Server
APORT-214PG

Features

- 4 x Opto-isolated digital inputs
- 2 x Relay outputs
- 1 x 10/100Mbps Ethernet interface
- 2 x RS-485 interface
- 1 x microSD card interface
- Support lwIP and BSD socket library
- Support web server
- Windows configuration utility included
- FreeRTOS operating system
- ToolChain: Atmel Studio
- 9~48VDC Power input

H/W Specifications

CPU / Memory
- CPU: Atmel SAM4E16E Cortex M4 SoC 120MHz
- Memory: 128KB SRAM, 1MB Flash inside SoC
  128KB SRAM, 2MB Flash on board via SPI expansion

Mass Storage
- SD 2.0 compliant, support SDHC
- 1 x Micro-SD socket inside

Network Interface
- Type: 1 x 10/100 Mbps Ethernet
- Connector: RJ45 connector
- Protection: 1.5KV magnetic isolation

Serial Ports
- 2 x RS-485
- Connector: Terminal block

Isolated Digital Input
- No. of Channel: 4
- Isolation protection: 2500Vrms
- Logical High: 5~24VDC
- Logical Low: 0~1.5VDC

Relay Output
- No. of Channels: 2
- Contact Rating: 30VDC@1A or 125VAC@0.5A
- LED Indicator: Yes
- Pin define: NC / COM / NO

Console / Debug Port
- Serial console port (on board, inside) x1

Indicator
- PWR: POWER LED x1
- RDY: READY LED x1
- LAN: Ethernet Activity LED x1
- RS-485 (D1/D2): RS-485 activity LED x2
- STATUS: User Defined (Control by SW/GPIO) x1
- DO0/DO1: Digital Out LED x2

General
- Power Input: +9 ~ +48VDC
- Operating Temperature: 0~70°C (32~158°F)
- Dimensions (W x L x H): 78 x 108 x 24mm
  (3.0 x 4.25 x 0.94in)
- Weight: 290g (0.64lb)
- Regulation: CE Class A, FCC Class A
- Installation: Wall-mounting, Optional DIN-RAIL mounting

S/W Specifications

Operation System
- FreeRTOS

Software Development
- Atmel Studio

Library Support
- lwIP
- BSD Socket

Windows Utility Software

Example Program

- Users only need to write application main program user_main (), web interface, interactive AJAX.C and home page HTML

Ordering Information

APORT-214PG
- Programmable Device Server with 2xRS485, 1xEthernet, 4xDI, 2xRelay out

DK-35A (36-DK35A-000)
- DIN RAIL Mounting Kit

PWR-12V-1A (31-62100-000)
- 110~240VAC to 12VDC 1A Power Adapter