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
Mass Storage
• Type: 1 x 10/100 Mbps Ethernet
• Connector: RJ45 connector
Network Interface
• No. of Channel: 4
• Isolation protection: 2500Vrms
Isolated Digital Input
• Logical High: 5~24VDC
• Logical Low: 0~1.5VDC
Relay Output
• No. of Channels: 2
• Contact Rating: 30VDC@1A or 125VAC@0.5A
Serial Ports
• 2 x RS-485
• Connector: Terminal block
Console / Debug Port
• Serial console port (on board, inside) x1
Indicator
• PWR: POWER LED x1
• RDY: READY LED x1
• LAN: Ethernet Activity LED x1
Cabling / Wiring
• Pin define: NC / COM / NO
• Power Input: +9 ~ +48VDC
• Operating Temperature: 0~70°C (32~158°F)
• Dimensions (W x L x H): 78 x 108 x 24mm
• Weight: 290g (0.64lb)
• 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