

air820i®

air820i® is an state of the art Universal RTU (Remote Terminal Unit) Controller that combine Wireless WAN Cellular Router, RTU and Data Logger all together. It provides powerful solutions for essential application with several ports such as LAN, USB, RS232, RS422, RS485, SDI-12, DI, DO, ADC and Dry Contact Relay in a single box for each application you need to use for.

air820i® an achieve other abilities and qualities according to regular standard for high performance equipments. The hardware based has designed on embedded system rules that use low power consumption and industrial design so that can be used in the extreme environment including the software design that concern s data security certified by nationwide standard while still maintaining its flexibility during performance. Therefore, you can benefit from air800mini to use with the wide

Hardware Feature and Technical Data

- CPU 32-bit MIPS Processor
- 2 x LAN Port 10/100
- 2 x USB Port
- Serial Port Specification
 - 2 x RS232/SDI-12
 - 1 x RS422/RS485
 - TxRx Communication LED Status
 - Modbus RTU/ASCII Protocol and Asynchronous Serial Protocol Support
 - Baud rate 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400
- 1 x SD Card Slot (support maximum 32 GB)
- 1 x Console Port
- Real Time Clock & Hardware and Software Watchdog
- Protocol Support :
 - DHCP
 - IP V4/V6 dual stack
 - NAT Static and Dynamic
 - Port Forwarding Protocol UPnP and NAT-PMP
 - Dynamic Routing : VPN pass-through, RIPv2, OSPF BGP and Multicast
 - Tunnel : IPSec with IKEv1/v2, IP/IP, PPTP, OpenVPN GRE (10 Tunnel Included), GRE Keepalive, L2TP Compression
 - IPSec : AES and 3DES
 - Cryptology : SHA-256, SHA-1, MD5
 - Firewall : IP allow/deny/drop, Port Selection
- Management and Configuration
 - SNMP V1, V2
 - Command Line and Web based
 - iManagement
- Customizable Software for Data transmission
- 128 x 64 Dot Pixels Graphic LCD, Dot Pitch 0.52 x 0.52
- Data Acquisition
 - Digital Input 4 Channels
 - Digital Output 4 Channels
 - Analog Input 10 Channels, selectable 4-20mA or 0-5V
 - Supply Out 4 Channels, V-out equivalent as V-in

- Wireless WAN Cellular Carrier Specification
 - 4G LTE
 - LTE FDD : 800/850/900/1800/2100/2600 MHz
 - LTE TDD : 2300/2500/2600 MHz
 - FDD DL up to 150 Mbps, UL up to 50 Mbps
 - TDD DL up to 130 Mbps, UL up to 35 Mbps
 - 3G
 - UMTS(WCDMA) 850/900/2100 MHz
 - HSPA+ DL CAT24 / UL CAT6, Dual Carrier
 - DL up to 42 Mbps, UL up to 5.76 Mbps
 - 2G
 - Dual Band 900/1800 MHz
 - EDGE DL and UL up to 236.8 Kbps
 - GPRS DL and UL up to 85.6 Kbps
 - 2 x Push SIM Socket
 - LED Status
 - SIM Status / SIM Online
 - Signal Strength
 - 300 Mbps Wifi 802.11n, 2.4 GHz, 2T2R for AP/Client/Bridge/ Repeater (Optional)
 - 2 x 50 Ohm SMA Antenna including Antenna Switcher
 - 2 dBi Standard Antenna (optional : High Gain Antenna)
- Relay Output 2 Channels
 - 1 Form C (SPDT) Power Relay
 - Contact Current Rating 10A @ 24VDC
 - Contact Resistance 100 m ohm (max) at 1A @ 6VDC
 - Pulse Output Frequency 0.3 Hz
- LoRaWAN Gateway Connection at AS920 – 925 MHz Frequency
- Power Input 12/24 VDC nominal (Support Range 9 to 36 VDC)
- Power Consumption 400 mA @ 24 VDC
- Operation Temperature -10 C to 70 C
- Storage Temperature -40 C to 85 C
- Ambient Relative Humidity 5 to 95% (non-condensing)
- Dimension (WDH) 129 x 43 x 205 mm
- Weight 850 g.
- DIN Rail Mounting
- Data Transmission Mode : Self Reporting, Interrogation, Event and Time mode
- Automatic Backup and Automatic Data Recovery to complete data on server

Optional Software : LoRaWAN Network Server (Open License)

Support API or MQTT Protocol Data Transmission, Web Base Configuration and Cloud Connecting Support

