RFFA20836

FDD-LTE WiFi Industrial Router

➢ High-powered industrial cellular module

➢ High-powered industrial 32bits CPU

➢ Support low-consumption mode, including sleep mode, scheduled online/offline mode, scheduled power-on/power-off mode(optional)

➢ Support auto recovery mechanism, including online detect, auto redial when offline to make Router always online

➢ Ethernet port: 1.5KV magnetic isolation protection

➢ Support standard RS232(or RS485/RS422), Ethernet and WIFI port that can connect to serial, Ethernet and WIFI devices directly

➢ Support intellectual mode, enter into communication state automatically when powered

RFFA20836 is a kind of cellular terminal device that provides large data transfer function by public GPRS/CDMA/WCDMA/EVDO/LTE network. It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS485/RS422), Ethernet and WIFI port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial, Ethernet and WIFI devices with only basic configuration. It has been widely used on M2M fields, such as self-service terminal industry, intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.

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Model:

- RFFA20836: FDD-LTE WiFi, 1x WAN, 4x LAN, 2x Cellular, 1x WiFi, 1x SIM/UIM

Standard and Band

- FDD-LTE2600/2100/1800/900/800MHz,700/1700/2100MHz(optional)
- DC-HSPA+/HSPA+/HSDPA/HSUPA/UMTS850/900/2100MHz,800/850/1900/2100MHz(optional)
- EDGE/GPRS/GSM850/900/1800/1900MHz
- GPRSCLASS10
- GPRSCLASS12

Bandwidth

- FDD-LTE:
  Download speed 100Mbps, Upload speed 50Mbps
- DC-HSPA+:
  Download speed42Mbps, Upload speed 5.76Mbps
- HSPA+:
  Download speed 21Mbps, Upload speed 5.76Mbps
  HSDPA:
  Download speed7.2Mbps,
- HSUPA:
  Upload speed 5.76Mbps
- UMTS: 384Kbps

WIFI Specification

- Standard: IEEE802.11b/g/n
- Bandwidth:
  IEEE802.11b/g: 54Mbps (max)
  IEEE802.11n:150Mbps (max)
- Security: WEP, WPA, WPA2, etc WPS (optional)
- TX power: 20dBm (11n), 24dBm (11g), 26dBm (11b)
- RX sensitivity: <-72dBm@54Mpbs

Hardware System

- CPU: Industrial32bitsCPU
- FLASH: 16MB (Extendableto64MB)
- DDR2: 128MB

Interface type

- WAN:
  110/100MbpsWANport (RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection

- LAN:
  410/100MbpsEthernetports (RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection

- Serial:
  1 RS232 (orRS485/RS422) port, 15KV ESD protection
  Databits: 5,6,7,8
  Stopbits: 1, 1.5(optional), 2
  Parity: none, even, odd, space (optional),mark(optional)
  Baudrate: 2400~115200bps

- Indicator:
  "Power", "System", "Online", "SIM", "Local Network", "WAN", "WIFI", "Signal Strength"

- Antenna:
  Cellular: 2 Standard SMA female interface, 50ohm, lighting protection (optional) WIFI: 1 Standard SMA male interface, 50ohm, lighting protection (optional)

- SIM/UIM:
  Standard3V/1.8Vusercardinterface, 15KV ESD protection

- Power:
  Standard3-PINpowerjack, reverse-voltage and over-voltage protection

- Reset:
  Restore the Router to its original factory default settings

Power Supply
- Standard Power: DC 12V/1.5A
- Power range: DC 5~3V

Consumption
- Standby: 293~326mA@12VDC
- Communication: 310~554mA@12VDC
- Schedule Shutdown: 2.75~4.2mA@12VDC

Physical Characteristics
- Housing: Iron, providing IP30 protection
- Dimensions: 207x135x28mm
- Weight: 790g

Environment
- Operating temperature: -35℃ ～ +75℃; (-31~+167℉) 95%(unfreezing)
- Storage temperature: -40℃ ～ +85℃; (-40~+185℉)

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