

MBP-100 Industrial Grade Cellular Router

Description:

The MBP-100 Single SIM Cellular Communication Router is designed to provide Secure and Reliable Connectivity for Remote Locations. With Cellular (2G - 5G), and Ethernet connectivity and additional Features such as VPN Support, Multiple WAN Access Methods, FTP the MBP-100 Cellular Router is ideal for a Large range of Applications such as Renewable Energy, Electrical Utilities, Sub-Station, Telemetry, Smart Cities, etc.

The MBP-100 has a High Performance 32-Bit communication processor and industrial grade wireless module and uses an embedded RTOS (Real Time Operating System). The Router features 1 RS232 / RS485 Port, 1 Ethernet Port, and 1 Console Port which can be easily connected to both Serial and Ethernet Devices to achieve Transparent Data Transmission and Data Routing.



Benefits & Features:



Industrial Grade 32-Bit Processor



Anti Interference Technology with EMC Protection



Metal Enclosure suitable for Industrial Grade applications



Multiple Ports (Serial, Ethernet) to support a large range of devices



Powerful and Intelligent Data Terminal for automatic Data Transmission after Power On



Configuration through Web Server and Command Line Interface

Description:



WDT Watchdog design for system stability



Anti-drop mechanism to ensure data Terminal is always online



ETH Interface has a built-in 1.5KV Electromagnetic Isolation



RS232 and RS485 Ports have a built-in 15KV ESD protection



SIM Card Interfaces have a 15KV ESD Protection



Power Interface has built-in Reverse Phase protection along with over Voltage protection

Cellular Standards

Standards and Frequency Bands
 LTE-TDD B38 / B40 / B41
 LTE-FDD B1 / B2 / B3 / B4 / B5 / B7 / B8 / B20 / B28
 WCDMA / HSPA+ B1 / B3 / B5 / B8 GSM / GPRS / EDGE 850 / 900 / 1800 MHz

Bandwidth
 LTE FDD: Downlink: 100 Mbps, Uplink: 50 Mbps
 DC-HSPA+: Downlink: 42 Mbps, Uplink: 5.76 Mbps
 HSPA+: Downlink: 21 Mbps, Uplink: 5.76 Mbps
 HSDPA: Downlink: 7.2 Mbps, Uplink: 5.76 Mbps
 UMTS: 384 Kbps

Transmit Power < 23 dBm

Receiver Sensitivity > - 97 dBm

Power, Hardware, and Interfaces

CPU Industrial Grade 32 Bit Processor

FLASH 16 MB

DDR2 128 MB

Power Supply 5 - 36 VDC

Standby Power Consumption 83 mA @ 12 VDC

Communication Power Consumption 150 mA @ 12 VDC

Button Reset Button

SIM / UIM
 1 Standard SIM Card Interfaces.
 1.8V / 3V SIM / UIM Card
 15 KV ESD Protection

Indicator Light
 1 Power
 1 System
 1 SIM
 1 Online
 1 Ethernet
 1 Signal Strength

Serial Ports
 1 RS232 / RS485 Port
 Data Bits: 5, 6, 7, 8 Bits
 Stop Bits: 1, 1.5, 2 Bits
 Parity: No Parity, Even Parity, Odd Parity
 Baud Rate: 2400 - 115200

WAN / LAN
 1 x 10 / 100 Mbps Ethernet Port
 Adaptive MDI / MDIX
 15KV ESD Protection

Network Protocols

WAN Static IP, DHCP, PPPOE, 2G / 3G / 4G / 5G

VPN Client PPTP, L2TP, IPSEC, OPENVPN, GRE

VPN Server PPTP, L2TP, IPSEC, OPENVPN, GRE

Configuration Remote Management, SYSLOG, SNMP, TELNET, SSHD, HTTPS, HTTP, SMS

Network Protocols
 TCP/IP
 UDP
 HTTP, HTTPS
 NTP
 TELNET
 DDNS
 APN / VPDN
 DHCP Server / Client
 ICMP
 SMTP
 POP3
 OICQ
 SSHD

Security
 SPI Firewall
 VPN Traversal
 Access Control
 URL Filtering, etc.

Others
 DHCP Binding MAC Address, DDNS,
 Firewall, NAT, DMZ Host, QOS, Traffic
 Statistics, Real-Time Display of Data
 Transmission Rate, Network Data Trigger
 Online / Offline

Physical Properties

Dimensions 100 x 97 x 25 mm (Not including Antenna + Mounting)

Bandwidth Approx. 330g

Operating Temperature - 35C to + 75C

Storage Temperature - 40C to + 85C

Relative Humidity 95% RH (Non Condensing)