MCU++

Master Controller Unit
with Linux OS

Device Description

MCU++ series is an advanced compact industrial controller based on a 32-bit 454 MHz ARM CPU. With the power of Linux OS, the user can keep application development quick and simplified. MCU++ can take almost any role in remote utility applications such as solar power plants and electricity distribution substations. It combines GPRS/GSM modem, WiFi and Bluetooth, also digital inputs, outputs and datalogger in a single device. Device with built-in 2 digital inputs and outputs and has two ethernet and serial communication ports for flexible connectivity to SCADA, field devices and remote control systems.

Device Specifications	
Supply Voltage Range	18 - 36 V_{DC}
Nominal Supply Voltage	24 V_{DC}
CPU	ARM 926 EJ-S 32 Bit 454 Mhz
Flash	32 mB
RAM	64 mB
Watchdog Timer	System Reset / 5 sec
Power Consumption	8W @ 24 V
Real Time Clock	Available
Configuration	MCU+
Data Logging	Yes
Storage	8 mB (Up to 32 GB with SD Card)
Over The Air	Available
Ethernet Specifications	
Data Rates	10 / 100 Mbps
Number of Connections	5
Interface	Ethernet (RJ-45) x 2
DHCP Support	Compatible
Ping Blocking	Yes
Wi-Fi Specifications	
Wi-Fi Protocols	802.11 b/g/n
Frequency Range	2.4 GHz ~ 2.5 GHz (2400M ~ 2483.5M)
RF Certification	SRRC, FCC, CE (RED), IC, NCC, KCC, TELEC (MIC)
Wi-Fi Certification	Wi-Fi Alliance
Wi-Fi Mode	Station / SoftAP / SoftAP + Station
Security	WPA / WPA2
Network Protocols	IPv4, TCP / UDP / HTTP / FTP