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MicroEmbedded Technologies.

Micro IoT- 1000

Internet of Things Development System.

The Embedded Market is changing on a daily basis. With the growth of miniature internet connected devices, the internet of things technology and its allied products are seeing a very sharp increase in development and use.

With the introduction of MicroIOT-1000 IOT development system, Microembedded technologies brings to the engineering education sector the world of IOT from end - to- end development perspective, or as we like to call it Chip to Cloud development.

The system can be used as a development platform to design and develop IOT based systems, understand the design and deployment of IOT services and products based on IOT, learn end-to-end IOT architecture, learn programming for sensors, IOT gateways and cloud. Get introduced to IOT communication protocols and IOT and embedded tools for the same.

Features of the MicroIoT Gateway (MicroIoT-1010)

- Processor - Cortex A series processor working @ 500+ MHz.
- DDR3 RAM- 512MB
- FLASH (emmc) – 4GB
- MicroSD Connector – 1 No.
- Ethernet 10/100Mbps with RJ45 Jack – 1.
- I2C based RTC.
- RS485 Port – 1 No.
- RS232 UART Port – 1 No
- UART to USB Converter – 1 No
- CAN Bus Interface – 1 No.
- USB HOST (USB 2.0 Full Speed) – 1
- USB Device (USB 2.0 Full Speed) – 1
- WiFi – 802.11b/g/n interface
- BlueTooth – Bluetooth 4.1 BLE
- Analog Inputs – 4-8Nos.
- Digital Inputs – 4-8 Nos.
- Digital O/P – 4-8 Nos.
- 20 Pin JTAG Header
- Reset Push Button, Indication LED's
- Power Supply – 8V DC to 24V DC
- Preloaded with Linux OS.
- Mini PCIe Interface – 1 No.(for optional USB based 4G LTE module)

Interfaces for theMicroIoT- 1000 IoT Development System

- Sensor Module with RS232 interface.
- Sensor Module with RS485interface.
- Sensor Module with Wi-Fi interface.
- Sensor Module with Zigbee interface.
- Sensor Module with BLEinterface.

Wireless Interface development Systems.

Wi-Fi Development Board (WDN).

- Low Power Cortex M3 wireless controller
- Onboard Sensors
- Onboard Antenna
- Battery or external Power supply

Bluetooth Development Board (BDN)

- Bluetooth specification V4.1
- ADC
- UART/SPI Interface
- UART to USB interface for programming
- Battery or external Power supply

Zigbee Development Board (ZDB)

- Cortex M3 based CPU.
- Analog Inputs – 8 channel
- I2C / SPI Interface for sensors
- Debugging Interface

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