Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

IoT Ethernet Monitoring Kit Powered by Medium One

Part Number: DM990101

From Sensor to Cloud. The DM990101 IoT Ethernet Monitoring kit powered by Medium One (Software-as-a-Service) offers an all-in-one IoT package. To address Industrial Internet of Things (IoT) projects, the Ethernet technology becomes the most reliable and stable connectivity. This IoT kit uses an Ethernet LAN8740A and comes pre-loaded with Medium One cloud service, mobile application (from Saritasa) as well as corresponding Microchip firmware. The firmware in the kit makes use of MPLAB®Harmony, FreeRTOS™, and WolfMQTT allowing you to quick-start your IoT design. The Ethernet port is controlled by a 32-bit micro-controller that benefits from a 2MB Flash of the PIC32MZ EF providing plenty of memory space for your application code.

The security is addressed using WolfSSL features. The kit communicates with the Medium One cloud over MQTT with TLS security, using both publish and subscribe topics. The mobile app communicates with the Medium One cloud via REST over HTTPS.

The DM990101 comes with pre-configured code to support 4 sensors : pressure, temperature/humidity, air quality and motion. In addition, hundreds of other different sensors can be plugged into the MikroElektronka mikroBUS™ footprint allowing for prototyping a large variety of IoT proof-of-concepts. Sensors needs to be purchased separately on MikroElectronika.

Features

Connect your IoT product to cloud and customize your applications in no time

Connect 100's of sensors or your own sensor to cloud with minimum modification using the reference design

Leverage the PIC32MZ EF and Ethernet LAN8740A PHY to aggregate data and connect

Utilize production ready reliability and secure cloud connectivity and identity management over MQTT with TLS

Extract data intelligence from your sensor data

Perform data analytics with Medium One's machine learning libraries

Get daily and weekly reports on your sensor data

Package Contents

IoT Ethernet Monitoring kit

PICkit3 in-circuit debugger

USB Male-A to Male Mini-B cable

USB Male-A to Male Micro-B cable