ADLINK Embedded IoT Gateway Platform





Starter Kit Available for MXE-202i only

Specifications

Model Name	MXE-101i	MXE-202i
System Core		
Processor	Intel® Quark™ SoC X1021	Dual-Core Intel® Atom™ Processor E3826
Video	-	1x HDMI
Memory	DDR3 800 1 GB	DDR3L 1066 2 GB (Memory Down)
I/O Interface		
Ethernet	2x 10/100 LAN	2x GbE LAN (Intel® I210-IT)
USB	3x USB 2.0 host port	2x USB 2.0 host port + 1x USB 3.0
Serial Ports	2x COM (1x RS-232 + 1x RS-232/422/485***)	
DIO	-	Optional 4x Isolated DI + 4x isolated DO
Expansions		
Mini PCIe	2x PCIe Mini Card Slots	
USIM	1x USIM Slot	
Manageability		
WDT	Watchdog Timer Support	
SEMA	SEMA support with BMC	
Power Supply		
DC Input	6-36 VDC	
AC Input	Optional 40 W AC-DC adapter	
Storage Device		
mSATA	-	1x mSATA****
SD	1x SD card slot (up to 16 GB)	
OS Preload	Wind River® IDP XT 2.0****	
Mechanical		
Dimensions	120 (W) x 100 (D) x 55 (H) mm (4.68" x 3.9" x 2.17")	
Construction	Full Aluminum Alloy	
Weight	650 g (1.43 lbs)	
Mounting	DIN-Rail / Wall mounting	
Environmental		
Opertating Temperature*	Standard: 0°C to 50°C (32°F to 122°F) Extended temperature option*: -20°C to 70°C (-4°F to 158°F)(w/ industrial grade SD)	Standard: 0°C to 50°C (32°F to 122°F) Extended temperature option**: -20°C to 70°C (-4°F to 158°F) (w/industrial SD/mSATA)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)	
Humidity	~95% @ 40°C (non-condensing)	
Vibration	Operating 5 Grms, 5-500 Hz, 3 axes w/ SD	Operating 5 Grms, 5-500 Hz, 3 axes w/ SD/mSATA
ESD	Contact +/-4 KV, Air +/-8 KV	
Shock	Operating 100 G, half sine 11 ms duration w/ SD	Operating 100 G, half sine 11 ms duration w/ SD/mSATA
EMC	CE & FCC Class A (EN-61000-6-4/EN61000-6-2)	
Safety	UL by CB	

* Other names and brands may be claimed as the properly of others.
**Extending the operating temperature is optional and requires use of an industrial solid-state drive storage device or CFast.
*** RS-232 supports Tx, Rx,CTS, and RTS signal only.
**** mSATA shares the same slot with mPCIe

Intelligent IoT Gateway Starter Kit Packing List:

MXE-202i, Dual-Core Intel® Atom™ SoC processor E3826 IoT Gateway on Wind River® IDP XT 2.0 + 8G SD card ADLINK EdgePro IoT device & sensor management application preloaded	
40W AC-DC adapter	WiFi/BT Kit (pre-installed)
ZigBee / 802.15.4 Modules USB Adapter	Modbus RTU module
ZigBee wireless light sensor	ZigBee wireless siren
Rotary control	LED array
Ethernet cable	

ADLINK TECHNOLOGY INC.

www.adlinktech.com

All products and company names listed are trademarks or trade names of their respective companies.
All specifications are subject to change without further notice.

Intelligent IoT Gateway Starter Kit



Build Your Internet of Things with ADLINK

Intelligent IoT Gateway Platform,
IoT Device & Sensor Management Application

ADLINK TECHNOLOGY INC. www.adlinktech.com

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The Complete Intelligent IoT Solution

The ADLINK Intelligent IoT Gateway Starter Kit provides a complete IoT connection solution for reduced development time and quick deployment for every application environment. The IoT Gateway Starter Kit combines ADLINK's MXE-202i intelligent IoT gateway, based on Intel Atom E3826 processors, ADLINK's EdgePro IoT device & sensor management application, one light sensor and corresponding siren output, Modbus TCP module, and accessories, utilizing industrial open standard protocol with security function powered by Intel® IoT Gateway.

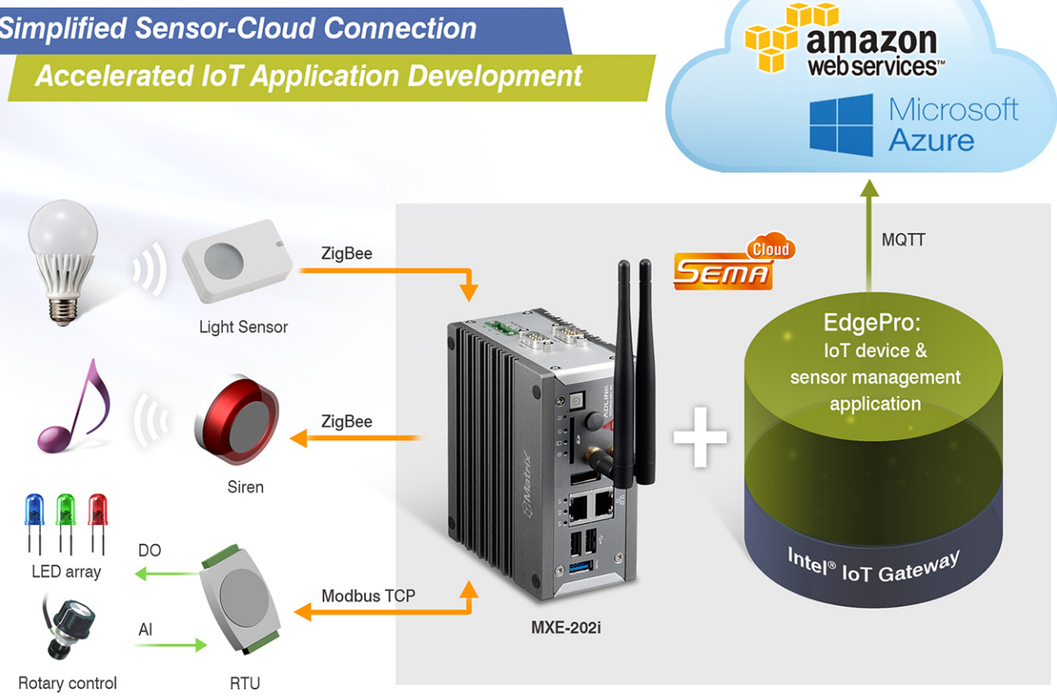
The ADLINK EdgePro IoT device & sensor management application runs on the Intel® IoT Gateway, integrating the Wind River Intelligent Device Platform® (IDP) XT and McAfee® Embedded Control to provide complete, pre-validated communication and security. EdgePro enables device and sensor management for plug-in(s) for field protocols including ZigBee (Home Automation Profile) and the commonly adopted fieldbus Modbus TCP for industrial automation, all easily configured with sensors or I/O nodes. Interaction across devices/sensors is accomplished by an Event Execution Engine. A user-friendly Web-based dashboard allows remote monitoring of status and actuator control, with RESTFul Web-service APIs. In addition, EdgePro enables simple configuration of reliable and secure connectivity with Amazon Web Services (AWS) and Windows Azure Cloud.

The ADLINK MXE-202i presents a sturdy aluminum housing withstanding industrial grade EMI/EMS to an EN 61000-6-4, 61000-6-2 specification, and is fully operable under even harsh conditions. The MXE-202i provides two GbE LAN, two COM, two USB 2.0 and one USB 3.0 host ports, four optional isolated DI and four isolated DO dual mini PCIe slots with one mSATA support and USIM socket support communication with connections such as WiFi, Bluetooth, and 3G cellular, to ensure interoperability between systems and maximize industrial connectivity to meet a wide variety of application requirements. The MXE-202i also includes ADLINK's proprietary SEMA application for quick setup of remote device management through SEMA Cloud, enabling monitoring and collection of system health and status information from the hardware in a timely, flexible, and precise manner.

ADLINK IoT End-to-End Gateway Solution

Simplified Sensor-Cloud Connection

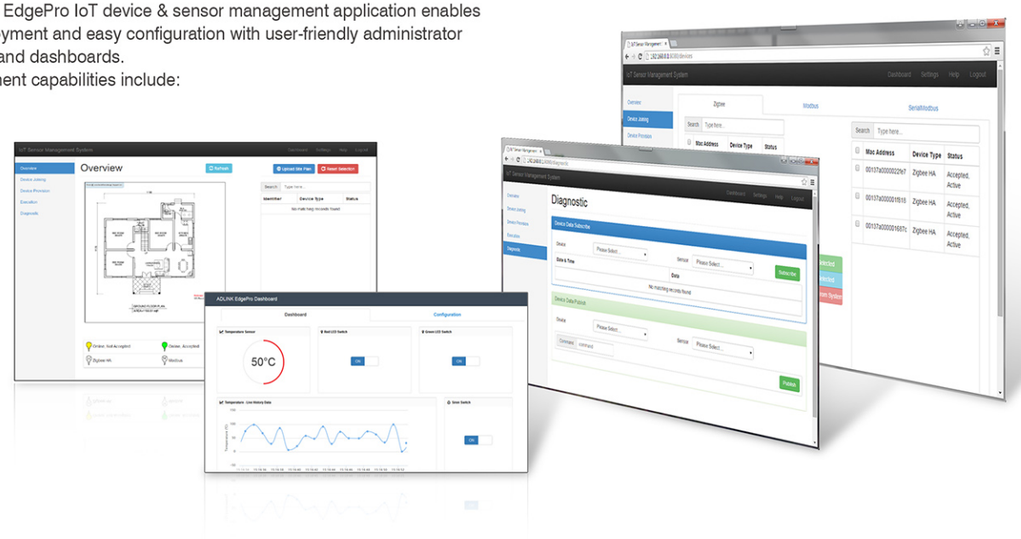
Accelerated IoT Application Development



ADLINK EdgePro

IoT Device & Sensors Management Application

ADLINK's EdgePro IoT device & sensor management application enables fast deployment and easy configuration with user-friendly administrator interface and dashboards.
Management capabilities include:

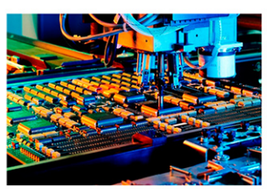


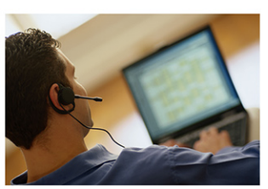
Device Joining:
Newly connected devices are set up for each supported protocol with no requirement for time-consuming configuration, and are immediately available to the remote server or Cloud

Device Provision:
Once detected, connected sensors and actuators are easily configured or renamed

Device Diagnostic:
When enabled, test procedures can provide readings and control, while confirming that devices and sensors are correctly connected

Execution:
Allows event definition based on sensor or actuator output, such as issuing an alert if temperature readout exceeds a threshold


Industrial Automation


Smart Building


Smart Parking System


Agriculture