Embedded Wireless IoT Solution

AIoT & IIoT Implementation

A Connected Future: AIoT
Enrich your products with wireless connected IoT

A Connected Future: Artificial Intelligence of Things (AIoT)
From IoT to AIoT – First step is to enrich your products with wireless connected IoT

The penetration of IoT (Internet of Things) technology into various industries is already an ongoing and rapidly spreading process. IoT is rapidly increasing in consumer electronics, manufacturing, logistics, retail, medical and other commercial applications. In addition, in recent years, artificial intelligence (AI) and IoT have become closer to each other, The new application type "AIoT (Artificial Intelligence Internet of Things)" emerged and is taking over across industries. AIoT innovation is accelerating forward and promises to lead us into a even more connected future.

With the technologies and evolving trends makes connected devices a norm. With that said, if your products are not IoT ready, it is about time. You no longer need to spend excessively on R&D resources or waste your time away. Get rid of cable restrictions and go wireless, seek for a great partner such as EDIMAX.

EDIMAX hardware and software are designed to be used with ease. We are here to make things simple for you, saving you cost and time, so you can focus on the important things, which is making your products great.

Making integration simple for IoT application is our ultimate goal. Learn how EDIMAX have simplified this process to advance your application to the next level with wireless technology.

01 Rich Wireless Product Selection

Most USB adapters are available and utilizes most well-known chipset makers to offer the best features from Wi-Fi to Bluetooth connectivity. The option is all yours.

02 Time-To-Market One-Stop Service

EDIMAX takes Short Time-To-Market very seriously, offering One-Stop Service from inquiry, testing, mass production to minimize hassle and speed up the lead-time without sacrificing quality.

03 Reliable & Stable Performance

Through strict and rigorous system performance testing, EDIMAX can produce high and stable performance throughout the production process, insuring steady wireless data transmissions.

04 World-Class Multiple Certifications

EDIMAX is one of the few that offers products with multiple worldwide certifications to reduce your cost of development. Meeting quality and regulation that you are seeking for.
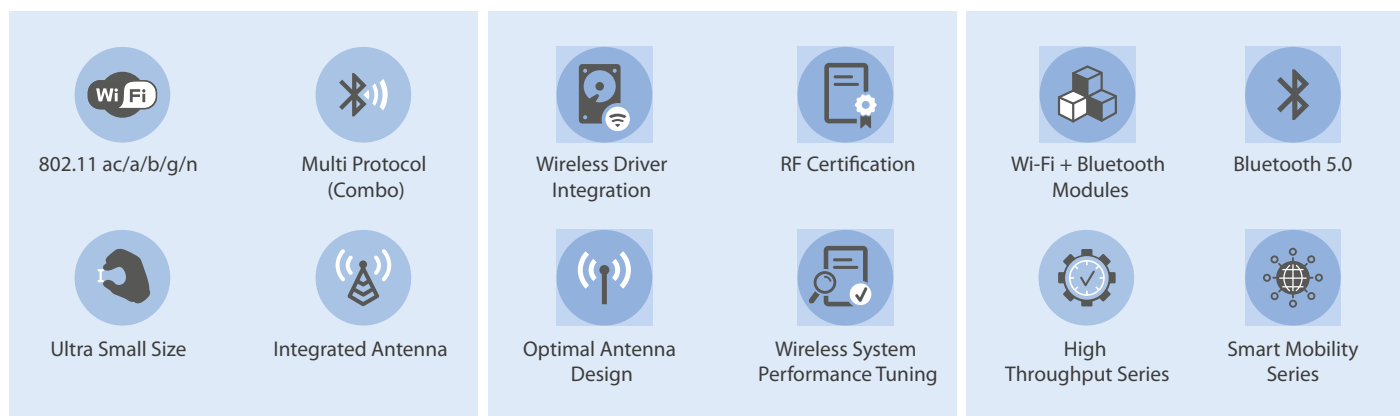
Your Industry, Our Solution. AIoT & IIoT Implementation.

Ideas Anywhere, Wi-Fi Everywhere! Let's go wireless.
Find out what embedded wireless adapters can do for your AIoT/IIoT devices.

Smart Home

Manufacturer, Warehouse, Retailer

Commerce, Entertainment, Sport Tech

Healthcare

Home Appliances, Refrigerator, Smart TV, Air Condition, Lighting, Robot Vacuum Cleaner, etc.

Industrial IoT Devices, Factory Automation Robot, Portable RFID Reader, Barcode Scanner, People Counter, Receipt Machine, etc.

Commercial Air Purifier, Drone, Business Printer, Coffee System, Creative Robots, Golf Swing Analyzers, etc.

Glucometer, Thermometer, Sphygmomanometer, Oximeter, Diagnostic Devices, Microscope, etc.

Plug, Connect, and Go Wireless. Designed-In Service, Built The Right Fit.

EDIMAX offers a one-stop service for diverse industries with customer-centric designed wireless adapters.In order to address the AIoT, IIoT market, EDIMAX embedded solution can be integrated with different types of wireless data acquisition solutions.

802.11 ac/a/b/g/n	Multi Protocol (Combo)
Ultra Small Size	Integrated Antenna

Wireless Driver Integration	RF Certification
Optimal Antenna Design	Wireless System Performance Tuning

Wi-Fi + Bluetooth Modules	Bluetooth 5.0
High Throughput Series	Smart Mobility Series

Short Time-To-Market Flow

Inquiry	Product Selection	System Performance Check	RF Certification	Production
• Platform OS	• Wi-Fi 11ac Dual-Band:	• Wi-Fi Adapter Driver for	• Mandatory:	• Production Support
• Linux Kernel Version	AC1750/ AC1200/ AC600	Integration & Testing Support	FCC/ IC/ CE/ MIC/ SRRC/	
• Wi-Fi Function	• Wi-Fi 11n:	- Wi-Fi Performance	CCC/ NCC, etc.	
Requirement	N300/ N150	- Throughput		
• Wi-Fi Certification	• Wi-Fi + BT 4.0	- Total Radiation Power	• Testing Tools & SOP	
Requirement	• BT 5.0	- Receiving Sensitivity	Support	
		- Radiation Pattern		

Wireless USB Adapter Product Selection

Wi-Fi 5 11ac							
EW-7833UAC	EW-7822UAC	EW-7822UAD	EW-7822UTC	EW-7822ULC	EW-7811UTC	EW-7811UAC	EW-7811DAC

Performance

	EW-7833UAC	EW-7822UAC	EW-7822UAD	EW-7822UTC	EW-7822ULC	EW-7811UTC	EW-7811UAC	EW-7811DAC
Speed	1300Mbps + 450Mbps	867Mbps + 300Mbps	867Mbps + 300Mbps	867Mbps + 300Mbps	867Mbps + 300Mbps	433Mbps + 150Mbps	433Mbps + 150Mbps	433Mbps + 150Mbps
Bands	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz
Antenna	2 Internal + 1 External	1 Internal + 1 External	2 External	2 Internal	2 Internal	Internal	External	External
	180° Adjustable Foldaway	180° Adjustable Foldaway	PIFA 2dBi (2.4GHz) & 4.4dBi (5GHz)	PIFA	PIFA	PIFA	Dipole 4dBi (2.4GHz) & 6dBi (5GHz)	Directional 5dBi (2.4GHz) & 7dBi (5GHz)
USB Standard	USB 3.0	USB 3.0	USB 3.0	USB 3.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0

Certification

	EW-7833UAC	EW-7822UAC	EW-7822UAD	EW-7822UTC	EW-7822ULC	EW-7811UTC	EW-7811UAC	EW-7811DAC
Report List	•CE (European Union) •FCC (U.S) •MIC (Japan) •IMDA (Singapore)	•CE (European Union) •FCC (U.S) •IC (Canada) •IMDA (Singapore) •WPC (India)	•CE (European Union) •FCC (U.S) •NCC (Taiwan) •BSMI (Taiwan)	•FCC (U.S) •IMDA (Singapore)	•CE (European Union) •FCC (U.S) •IC (Canada) •IMDA (Singapore) •NCC (Taiwan) •BSMI (Taiwan) •RCM (Australia & New Zealand) •Anatel (Brazil) •MIC/VCCI (Japan) •OFCA (HOng King) •WPC (india) •NTC (Philippines) •SRRC (China) •CITC (Saudi Arabia) •SIRIM (Malaysia) •SUBTEL (Chile) •CRC (Colombia) •NBTC (Thailand) •Exemption Letter (Vietnam)	•CE (European Union) •FCC (U.S) •IC (Canada) •IMDA (Singapore) •NCC (Taiwan) •BSMI (Taiwan)	•CE (European Union) •FCC (U.S) •IC (Canada) •IMDA (Singapore)	•CE (European Union) •FCC (U.S) •IC (Canada) •IMDA (Singapore) •NCC (Taiwan) •BSMI (Taiwan)

Wi-Fi 4 11n			Wi-Fi 5/4 & Bluetooth		Bluetooth
EW-7722UTn V3	EW-7612UAn V2	EW-7811Un V2	EW-7611UCB	EW-7611ULB	BT-8500

Performance

	EW-7722UTn V3	EW-7612UAn V2	EW-7811Un V2	EW-7611UCB	EW-7611ULB	BT-8500
Speed	300Mbps	300Mbps	150Mbps	Wi-Fi: 433Mbps + 150Mbps BT: 1Mbps	Wi-Fi: 150Mbps BT: 1Mbps	3Mbps (class BT-BR/EDR) & 2Mbps (BLE)
Bands	2.4GHz	2.4GHz	2.4GHz	Dual-Band 5GHz or 2.4GHz + BT 4.0	2.4GHz + BT 4.0	BT 5.0
Antenna	Internal	External	Internal	Internal	Internal	Internal
	PIFA	PIFA 3dBi (2.4GHz)	PIFA	PIFA	PIFA	PIFA
USB Standard	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0	USB 2.0

Certification

	EW-7722UTn V3	EW-7612UAn V2	EW-7811Un V2	EW-7611UCB	EW-7611ULB	BT-8500
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EDIMAX
NETWORKING PEOPLE TOGETHER

◎ Maximum performance, actual data rates and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.