

Embedded Wireless IoT Solution **2023**

IIoT & AIoT with
Wireless Implementation



Downloadable
Marketing Resources

World's First Industrial-Grade Embedded Wi-Fi USB Adapter

IEW-7811UTC



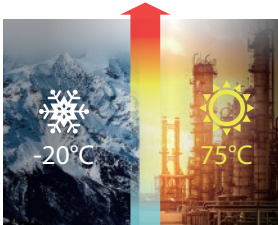
IoT Ready? Easily Add Wi-Fi to Your Device

Enable your product with wireless connectivity

Introducing the all-new embedded Wi-Fi USB Adapter, IEW-7811UTC. Allowing greater Wi-Fi connection in harsh environments, the IEW-7811UTC comes with dedicated, robust, and outstanding electronic and mechanical designs, making it easy to embed in your devices and operate within a wide temperature range from -20°C to 75°C (-4°F to 167°F). Made for industrial and outdoor Wi-Fi connectivity that ensures excellent performance.

Not only does the adapter offer long-term durability and performance, the IEW-7811UTC comes with security, quality and wide compatibility. Works with Windows and Linux embedded systems, further inter-operates with your existing Wi-Fi routers, AP and extenders without replacements or additional purchases.

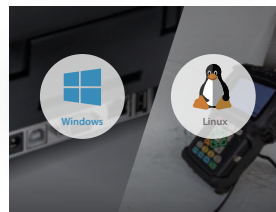
Ideal for using in outdoors with low or high temperature environments, indoor rooms with heat dissipation difficulties and embedding in devices with limited space.



Durable and Reliable Wi-Fi



High Level Security



Smooth Compatibility



Dual Band Selectivity

Your Industry, Our Solution. IIoT & AIoT Implementation.

Ideas Anywhere, Wi-Fi Everywhere! Let your IIoT/AIoT devices go wireless.

Manufacturer, Warehouse, Retailer

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



Smart Agriculture

Autonomous Robots, Drones or UAVs, Sensors and the IoT from Temperature, Water Level, Water Pressure, Solar Radiation, Leaf Moisture, Stem Diameter, etc.



Healthcare

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



Commerce, Entertainment, Sport Tech

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



Why EDIMAX?

Get your devices IoT ready with EDIMAX, you will no longer need to spend excessively on R&D resources and time. EDIMAX has more than 30 years experiences for providing networking products and expect the industrial-grade Wi-Fi USB Adapter, EDIMAX offers various wireless USB adapters. With the professional hardware and software design teams, EDIMAX makes integration easily and simplified the process to advance your devices to the next level with wireless connectivity.



**Quality Like
No Other**



**Custom
Build**



**World Class
Certifications**

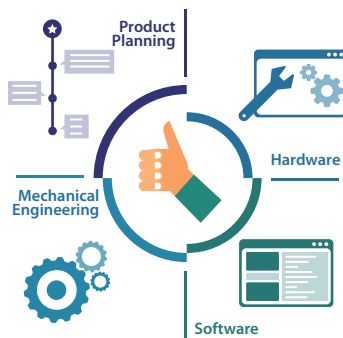


**Short
Time-to-Market**

Quality Like No Other

Strong R&D

Dedicated R&D team, fully focused on function, performance and quality.



Reliability

Strict product reliability tests help uncover flaws in system design and functionality.

- ◆ >30 Quality Assurance Testing Items
- ◆ 5 Times Testing Items than Others



Consistency

Consistent high-performance through strict and rigorous testing.

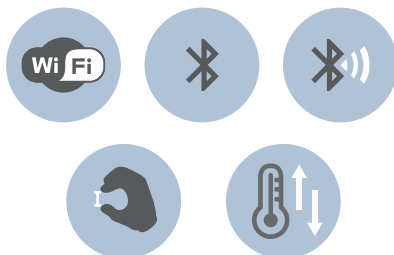
- ◆ Low Tolerance to Meet High Quality Consistency
- ◆ Strict Quality Control During and After Production



Custom Build for The Right Fit

Full Range Solution

- Wi-Fi 4/5/6 or Bluetooth
- Wi-Fi & Bluetooth Combo
- Ultra Small or Other Sizes
- Normal or Harsh Environment Use



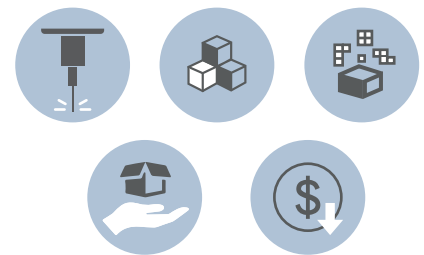
Design-in Service

- Up-to-date Driver
- RF Certification
- Optimal Antenna Design
- Wireless System Performance Tuning



Mass Customization

- Laser Printing Customization
- Flexible Bulk Package for Saving Shipping Cost
- Modulated Design



World Class Certifications

EDIMAX has approval for more than 30 different countries or regions regulation certification experiences. With this international multi-country certification experiences, EDIMAX can assist to get the certification upon request to shorten the product launch schedule and also save the huge application cost.



Short Time-To-Market

Production

- World's Leading Networking Solution Provider / Manufacturer
- ISO 9001 & ISO 14000 Certified
- Mass Production Process with Total Quality Management (TQM)
- Fast and Flexible Service

QC & RF Certification

- Reliability Test
- Performance Test
- Quality Assurance
- Certified in 25+ Countries and Regions

System Performance Check

- Owned Labs
- Driver Integration
- Wireless Performance
- Throughput
- Transmission Power
- Receive Sensitivity
- Radiation Pattern
- Functionality



Inquiry

- Wireless Requirement: Wi-Fi, Bluetooth, Combo
- OS Platform
- OS Version
- Certification Requirement

Product Selection

- Specification Version
 - Wi-Fi 4/5/6 (802.11 ax/ac/a/b/g/n)
 - Bluetooth or Combo
 - Dual-band
- Throughput
- Form size
- High Gain/Long Range
- High Efficiency
- Operating Temperature

*Plug, Connect,
and Go Wireless.*



Nano & Mini Design	Industrial Grade	Wi-Fi 5 11ac		
	IEW-7811UTC	EW-7822ULC		EW-7822UTC
				
Performance				
Speed	433Mbps + 200Mbps	867Mbps + 300Mbps		867Mbps + 300Mbps
Bands	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz		Dual-Band 5GHz or 2.4GHz
Antenna	Internal	2 Internal		2 Internal
	PIFA 2.4GHz: 1.8dBi 5GHz: 2.5dBi	Monopole 2.4GHz : 1.81 and 0.36dBi 5GHz : 1.71 and -0.23dBi		PIFA 2.4GHz : 2.48 and 2.5dBi 5GHz : 2.89 and 3.3dBi
USB Standard	USB 2.0	USB 2.0		USB 3.2 Gen 1*
Certification				
Report List	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•Operating Temperature: -20~75°C (-4~167°F)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•IC (Canada)•MIC/VCCI (Japan)•IMDA (Singapore)•NBTC (Thailand)•WPC (India)•NTC (Philippines)•Exemption Letter (Vietnam)•SIRIM (Malaysia)•SRRC (China)•OFCA (Hong Kong)•NCC (Taiwan)•BSMI (Taiwan)•CITC (Saudi Arabia)•RCM (Australia & New Zealand)•Anatel (Brazil)•SUBTEL (Chile)•CRC (Colombia)•ENACOM (Argentina)•TRA (Bahrain)•CITRA (Kuwait)•TRA (Oman)•CRA (Qatar)•ICASA (South Africa)•UA RED DoC (Ukraine)•URSEC (Uruguay)•KC (South Korea)•IFETEL/NOM (Mexico)•SDPPI (Indonesia)•MOC (Israel)•TDRA (United Arab Emirates)•FCC (U.S)•IMDA (Singapore)		
Nano & Mini Design	Wi-Fi 5 11ac		Wi-Fi 4 11n	
	EW-7811ULC	EW-7811UTC	EW-7722UTn V3	EW-7811Un V2
				
Performance				
Speed	433Mbps + 200Mbps	433Mbps + 150Mbps	300Mbps	150Mbps
Bands	Dual-Band 5GHz or 2.4GHz	Dual-Band 5GHz or 2.4GHz	2.4GHz	2.4GHz
Antenna	Internal	Internal	2 Internal	Internal
	PIFA 2.4GHz: 0.98dBi 5GHz: 3.93dBi	PIFA 2.4GHz : 2dBi 5GHz : 4dBi	PIFA 2.GHz: 1.3dBi	PIFA 2.4GHz: -4dBi
USB Standard	USB 2.0	USB 2.0	USB 2.0	USB 2.0
Certification				
Report List	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•NCC (Taiwan)•BSMI (Taiwan)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•IC (Canada)•NCC (Taiwan)•BSMI (Taiwan)•ICT Qatar (Qatar)•RCM (Australia & New Zealand)•CRC (Colombia)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•NCC (Taiwan)•BSMI (Taiwan)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•IC (Canada)•NCC (Taiwan)•BSMI (Taiwan)



Nano & Mini Design	Wi-Fi 5/4 & Bluetooth			Bluetooth		
	EW-7611UCB	EW-7611ULB V2	EW-7611ULB	BT-8500		
						
Performance						
Speed	Wi-Fi: 433Mbps+150Mbps BLE: 1Mbps	Wi-Fi: 150Mbps BLE: 1Mbps	Wi-Fi: 150Mbps BLE: 1Mbps	3Mbps (Classic BR/EDR) & 2Mbps (BLE)		
Bands	Dual-Band 5GHz or 2.4GHz + BT 4.0	2.4GHz + BT 4.2	2.4GHz + BT 4.0	BT 5.0		
Antenna	Internal	Internal	Internal	Internal		
	PIFA 2.4GHz : 2dBi 5GHz : 3dBi	PIFA 2.4GHz: 1.6dBi	PIFA 2.4GHz: 1.6dBi	PIFA 2.4GHz: -1.2dBi		
USB Standard	USB 2.0	USB 2.0	USB 2.0	USB 2.0		
Certification						
Report List	<ul style="list-style-type: none">•CE (European Union)•IMDA (Singapore)	<ul style="list-style-type: none">•BQB (Bluetooth)•CE (European Union)•FCC (U.S)•IC (Canada)	<ul style="list-style-type: none">•BQB (Bluetooth)•CE (European Union)•FCC (U.S)•IC (Canada)•MIC/VCCI (Japan)•KC (South Korea)•WPC (India)•OFCA (Hong Kong)	<ul style="list-style-type: none">•NCC (Taiwan)•BSMI (Taiwan)•ICASA (South Africa)•NTRA (Egypt)•TRA (Bahrain)•TRA (OMAN)•CRA (Qatar)•IFETEL (Mexico)	<ul style="list-style-type: none">•CRC (Colombia)•MTC (Peru)•RCM (Australia & New Zealand)	<ul style="list-style-type: none">•BQB (Bluetooth)•CE (European Union)•FCC (U.S)•IC (Canada)•NCC (Taiwan)•BSMI (Taiwan)
Compact, Portable, Specialized Design	Wi-Fi 6 11ax		Wi-Fi 5 11ac			
	EW-7822UMX	EW-7833UAC	EW-7822UAC	EW-7822UAD	EW-7811UAC	EW-7811DAC
						
Performance						
Speed	1201Mbps + 573Mbps	1300Mbps + 450Mbps	867Mbps + 300Mbps	867Mbps + 300Mbps	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
Antenna	2 Internal	2 Internal + 1 External	1 Internal + 1 External	2 External	External	External
	Dipole 2.4GHz : 3.6 and 3.1dBi 5GHz : 4.5 and 5.6dBi	180° Adjustable Foldaway Internal PIFA 2.4GHz: 4.84 and 3.69dBi 5GHz: 3.78 and 3.04dBi External 2.4GHz: 3.41dBi 5GHz: 4.74dBi	180° Adjustable Foldaway Internal Monopole 2.4GHz: 2dBi 5GHz: 2dBi External 2.4GHz: 2dBi 5GHz: 2dBi	Dipole 2.4GHz : 1.32 and 2.09dBi 5GHz : 2.8 and 4.37dBi	Dipole 2.4GHz : 4dBi 5GHz : 6dBi	Directional 2.4GHz : 4.2dBi 5GHz : 7.1dBi
USB Standard	USB 3.2 Gen 1*	USB 3.2 Gen 1*	USB 3.2 Gen 1*	USB 3.2 Gen 1*	USB 2.0	USB 2.0
Certification						
Report List	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•IC (Canada)•NCC (Taiwan)•BSMI (Taiwan)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•MIC (Japan)•IMDA (Singapore)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•IC (Canada)•IMDA (Singapore)•WPC (India)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•NCC (Taiwan)•BSMI (Taiwan)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•IC (Canada)•IMDA (Singapore)	<ul style="list-style-type: none">•CE (European Union)•FCC (U.S)•IC (Canada)•IMDA (Singapore)•NCC (Taiwan)•BSMI (Taiwan)

(*Previous USB 3.0/USB 3.1 Gen 1 is rebranded as USB 3.2 Gen 1 by USB-IF.)



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