



Embedaea Wireless IoT Solution

IIoT & AloT with Wireless Implementation



Downloadable Marketing Resources



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

IEW-7811UTC



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.

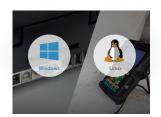
Ideal for using in outdoors with low or high temperature environments, indoor rooms with heat dissipation difficulties and embedding in devices with limited space.



Durable and Reliable Wi-Fi



High Level Security



Smooth Compatibility



Dual Band Selectivity

Your Industry, Our Solution. IIoT & AloT 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

EDİMAX



Others

NFT / Throughput Test
WLAN MAC address
PID/VID consistency

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

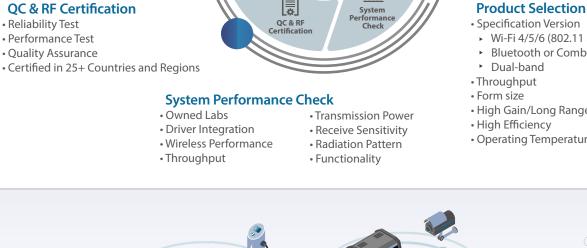
- Quality Assurance



Inquiry

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

- 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





	Industrial Grade	Wi-Fi 5 11ac						
	IEW-7811UTC	EW-	EW-7822UTC					
Nano & Mini Design	new	*Di						
Performance	new							
Speed	433Mbps + 200Mbps	867Mbp	867Mbps + 300Mbps					
Standards & Protocols	Wi-Fi 5: 802.11AC	Wi-Fi	Wi-Fi 5: 802.11AC					
Antenna	Internal	2	2 Internal					
	PIFA 2.4GHz: 1.8dBi 5GHz: 2.5dBi	M 2.4GHz : 1 5GHz : 1.	PIFA 2.4GHz: 2.48 and 2.5dBi 5GHz: 2.89 and 3.3dBi					
USB Standard	USB 2.0	l	USB 3.2 Gen 1*					
Certification Report List	•CE (European Union) •FCC (U.S) •Operating Temperature: -20~75°C (-4~167°F)	CE (European Union) FCC (US) IC (Canada) IMC/VCCI (Japan) IMDA (Singapore) INBTC (Thailand) WPC (India) FCC (Philippines) Exemption Letter (Vietnam) SRRIM (Malaysia) SRRC (China) NCC (Taiwan) INCC (Taiwan) SBMI (Taiwan) ICTC (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) •UR RED Doc (Ukraine) •URSEC (Uruguay) •KC (South Korea) •IFETEL/NOM (Mexico)					
	Wi-F	5 11ac	Wi-Fi 4 11n					
Nano & Mini Design	EW-7811ULC	EW-7811UTC	EW-7722UTn V3	EW-7811Un V2				
Performance								
Speed	433Mbps + 200Mbps	433Mbps + 150Mbps	300Mbps	150Mbps				
Standards & Protocols	Wi-Fi 5: 802.11AC	Wi-Fi 5: 802.11AC	Wi-Fi 4: 802.11n	Wi-Fi 4: 802.11n				
Antenna	Internal	Internal	2 Internal	Internal				
	PIFA 2.4GHz: 0.98dBi 5GHz: 3.93dBi	PIFA 2.4GHz : 2dBi 5GHz : 4dBi	PIFA 2.4GHz: 1.3dBi	PIFA 2.4GHz: -4dBi				
USB Standard	USB 2.0	USB 2.0	USB 2.0	USB 2.0				
Certification								
Report List	•CE (European Union) •FCC (U.S) •NCC (Taiwan) •BSMI (Taiwan)	CE (European Union) FCC (U.S) IC (Canada) NCC (Taiwan) BSMI (Taiwan) CRA (Qatar) RCM (Australia & New Zealand) CRC (Colombia)	•CE (European Union) •FCC (U.S) •NCC (Taiwan) •BSMI (Taiwan)	•CE (European Union) •FCC (U.S) •IC (Canada) •NCC (Taiwan) •BSMI (Taiwan)				



		Wi-Fi 6/5/4 & Bluetooth								Bluetooth			
	EW-7611UXB	EW-7611UCB	W-7611UCB EW-7611ULB V2		EW-7611ULB			BT-8530		BT-8500			
Nano & Mini Design	new		Enin	AAX J		DiMAX		EDIMAX		EDIMAX			
Performance													
Speed	Wi-Fi: 433Mbps+ 150Mbps Compliant with BT5.3	150Mbps Com		: 150Mbps bliant with BT4.2	Wi–Fi: 150Mbps Compliant with BT4.0		Compliant with BT5.3 BT classic (BDR/ EDR) and BLE		ompliant with BT5. BT classic BDR/ EDR) and BLE				
Standards & Protocols	Wi-Fi 6: 802.11AX Bluetooth: BT5.3	Wi-Fi 5: 802.11AC Bluetooth: BT4.0	Bluet	ooth: BT4.2	Bluetooth: BT4.0			Bluetooth: BT5.3		Bluetooth: BT5.0			
Antenna	Internal	Internal	Ir	nternal		Internal		Internal		Internal			
	PIFA 2.4GHz : 3dBi 5GHz : 3.4dBi	PIFA 2.4GHz : 2dBi 5GHz : 3dBi	2.4G	PIFA Hz: 1.6dBi	PIFA 2.4GHz: 1.6dBi			PIFA 2.4GHz: 2.3dBi		PIFA 2.4GHz: -1.2dBi			
USB Standard	USB 2.0	USB 2.0	L	JSB 2.0	USB 2.0			USB 2.0		USB 2.0			
Certification													
Report List		CE (European Union) •IMDA (Singapore) • FCC (U.S)		*CE (European Union) *CE (European Union) *FCC (U.S) *CE (European Union) *FCC (U.S) *ICASA (South Africa) *RCM (Australia - NTRA (Egypt)) New Zealand)		Union) •BSMI (Taiwan) •MTC (Peru) •ICASA (South Africa) •RCM (Australia & •NTRA (Egypt) New Zealand) an) •TRA (Bahrain) •CNC (Argentina) ea) •TRA (OMAN) •CRA (Qatar)		•CE (European Union) •FCC (U.S)		BQB (Bluetooth) CE (European Union FCC (U.S) C (Canada) NCC (Taiwan) BSMI (Taiwan)			
	Wi-Fi 6 11ax												
	EW-7822UMX	EW-7833UA	C	EW-782	22UAC	EW-7822UAD	EV	V-7811UAC	Е	W-7811DAC			
Compact, Portable, Specialized Design					III.					ROIMAX			
Performance													
Speed	1201Mbps + 573Mbps	1300Mbps + 450Mbps		867Mbps + 300Mbps		867Mbps + 300Mbps 4		433Mbps + 150Mbps 43		133Mbps + 150Mbps			
Standards & Protocols	Wi-Fi 6: 802.11AX	Wi-Fi 5: 802.11AC		Wi-Fi 5: 802.11AC		Wi-Fi 5: 802.11AC Wi		-Fi 5: 802.11AC W		Fi 5: 802.11AC			
Antenna	2 Internal	2 Internal + 1 External				2 External		External		External			
	Dipole 2.4GHz : 3.6 and 3.1dBi 5GHz : 4.5 and 5.6dBi	180° Adjustable Fol Internal PIFA 2.4GHz: 3.04 and 3. 5GHz: 3.69 and 4.4 External 2.4GHz: 3.41dl 5GHz: 4.74dB	.78dBi 84dBi Bi	l 80° Adjustak Internal M 2.4GHz 5GHz: Exte 2.4GHz 5GHz:	lonopole : 2dBi 2dBi rnal :: 2dBi	Dipole 2.4GHz: 1.32 and 2.09dBi 5GHz: 2.8 and 4.37dBi		Dipole .4GHz : 4dBi 5GHz : 6dBi		Directional IGHz : 4.2dBi GHz : 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	•CE (European Union) •FCC (U.S) •IC (Canada) •NCC (Taiwan) •BSMI (Taiwan)	•CE (European Ur •FCC (U.S) •MIC (Japan) •IMDA (Singapore	≘)	• CE (Europe • FCC (U.S) • IC (Canada • IMDA (Sing • WPC (India) Japore)	•CE (European Union) •FCC (U.S) •NCC (Taiwan) •BSMI (Taiwan)	•CE (Eu •FCC (I •IC (Ca	,	•FCC •IC (((European Union) (U.S) Canada) C (Taiwan) 11 (Taiwan)			



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

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