

Product Highlights

- 802.11a/b/g/n/ac 2G/5G, 2x2 MIMO
- Time Division Multiple Access+ (TDMA+)
- Smart Wireless Technology for superior performance
- Multiple Operation Modes



DWL-F6612-I

802.11a/b/g/n/ac 2G/5G Indoor high-performance Wireless Ceiling AP

Features

- Dual-band concurrent (2.4GHz/5GHz)
- Support 802.11ac standard, and 2x2 MIMO technology
- Longest transmission distance: 0~150m, and max transmission throughput: 867Mbps (5G)&300Mbps (2.4G)
- Integrated smart wireless technology
- Support operation modes: AP, Station, WDS AP, WDS Station
- Support PPPOE and route mode
- Wireless multimedia optimized shaping technology to ensure the stability of video and flow transmission
- Support dual backup firmware
- The operation management based on the Web makes the installation and maintenance of the equipment more convenient.
- Support SNMP
- Standard 802.3at Power over Ethernet (POE+)
- IP41

DWL-F6612I-E is a new generation of 802.11ac 2x2 dual frequency AP for indoor applications. It can provide stable indoor wireless signal coverage, and provide customers with stable, high quality, convenient broadband services.

DWL-F6612I-E built in D-Link's smart wireless technology, this technology incorporates industry-leading core technology, including MIMO-OFDM, TDMA, Beam-Forming, Auto ACK, etc., to ensure high throughput and reliable wireless signal coverage under various application scenarios.

This series of products have simple structure and designed fully considering harsh environment applications, and comply with the IP41 standard, so the DWL-F6612-E is a good candidate for enterprise level Wi-Fi coverage device.

Industry-leading Product Design

The DWL-F6612I-E has the industrial leading technology, owing the performance capability of a wireless base station with only a small form factor, furthermore, it has very attractive low cost.

The DWL-F6612I-E that complies with the 802.11ac standards can provide up to 867Mbps throughput.

The DWL-F6612I-E utilizes a series of advanced technologies such as TDMA, MIMO and so on, all embedded in the integrated smart wireless

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Smart Wireless technology System

Smart wireless technology utilizes the most advanced technologies

- MIMO can improve wireless data rate and signal quality
- 10/20/40/80MHz bandwidth can be flexibly configured by the users
- The packet power control can dynamically select the transmitting power of the message, so as to effectively balance the coverage distance and mutual interference
- Automatic rate adjustment can well adapt to the quality change of transmission link
- Configure the Wi-Fi as WAN or LAN port freely.

Dual Network Port and POE Power Supply Technology

These technologies can make products better suited to the needs of product applications

- POE power supply mode saves the trouble of long-distance power supply, and can be connected directly to the POE switch
- The design of the double ports provides a better space for the connection of the device

Technical Specifications

Hardware Features	CPU/Baseband Radio	IPQ4028
	DDR & Memory	256MB DDR3 ,32MB Flash
	Power Requirement	POE+/DC 24V~48V
	Physical Interface	2×10/100M /1000MBase-TX (Cat. 5/5E, RJ-45)
Software Specifications	Operation Mode	AP, Station, WDS AP, WDS Station
	Encryption Authentication	WPA/WPA2, Hide SSID, IP/MAC Filtering
	Networking Mode	Bridge / Router
	Configuration Management	Web-based configuration, AC Management, SNMP Management
	Software Upgrade	Firmware update via browser or AC
	Protocol	802.11a/b/g/n/ac, MU-MIMO
	Operating Frequency	2G : 2402~2480MHz 5G : 5180~5320, 5745~5825MHz
Physical/Electrical /Environmental /Antenna	Antenna size	150×150×31.6mm
	Antenna gain	Omnidirectional dual-band 3dBi
	Enclosure Characteristics	ABS
	Installation method	Ceiling Installation
	Weight	0.3kg
	Max Power Consumption	<=20W
	Temperature	Working: -22 °C ~55 °C Storage: -40 °C ~85°C
	Working humidity	5%~95%RH Non-condensing

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RF Index							
TX Power (2T2R)				Receiving Sensitivity			
Mode	Rate Mbps	Power	Tolerance	Mode	Rate Mbps	Sensitivity	Tolerance
11b	1~11	24dBm	+/- 2dBm	11b	1	-93dBm	+/- 2dBm
11g	6~24	24dBm	+/- 2dBm	11g	6	-91dBm	+/- 2dBm
	54	21dBm	+/- 2dBm		54	-72dBm	+/- 2dBm
11a	6~24	24dBm	+/- 2dBm	11a	6	-91dBm	+/- 2dBm
	54	21dBm	+/- 2dBm		54	-72dBm	+/- 2dBm
	MCS0~4	24dBm	+/- 2dBm		MCS0/8 HT20	-85dBm	+/- 2dBm
	MCS7	21dBm	+/- 2dBm		MCS7/15 HT20	-67dBm	+/- 2dBm
11n	MCS 8~12	24dBm	+/- 2dBm	11n	MCS0/8 HT40	-82dBm	+/- 2dBm
	MCS15	21dBm	+/- 2dBm		MCS7/15 HT40	-64dBm	+/- 2dBm
	MCS 0~4	24dBm	+/- 2dBm		MCS0/10 HT20	-85dBm	+/- 2dBm
	MCS 9	20dBm	+/- 2dBm		MCS9/19 HT20	-60dBm	+/- 2dBm
11ac	MCS10~14	24dBm	+/- 2dBm	11ac	MCS0/10 HT80	-79dBm	+/- 2dBm
	MCS 19	20dBm	+/- 2dBm		MCS9/19 HT80	-54dBm	+/- 2dBm

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Ordering Information	
Part Code	Description
DWL-F6612-I	802.11a/b/g/n/ac 2G/5G Indoor high performance Wireless Ceiling AP