



DIGISOL™

WIRELESS AND BROADBAND

DIGISOL InWall/Wall Mount Wireless Access Point

DG-WM2005WI



Key Features:-

- High-Speed Wireless broadband access
- Intelligent load balancing mechanism
- IPv4/IPv6 Dual Protocol Stack Network
- Network-Wide Seamless Roaming
- Secure and Controllable Wireless Network
- Fit and Fat modes
- Plug-and-play



Introduction:-

DIGISOL DG-WM2005WI is 802.11n-based high performance wireless access point (AP) especially for the hotels and Hospitals. It has a wall-mounted socket design with multi-service wireless and 4 LAN ports integrated. The wireless operates in 2.4GHz, with 2x2 MIMO providing a data transmission rate of 300 Mbps. It has GE uplink ports, which eliminates the limitations of FE uplink ports and meet high bandwidth and high-rate forwarding requirements. The pass-through port allows a connection for a digital phone to locally access an internal PBX system. It also provides PSE power output to facilitate extension of VoIP and other similar devices. The DG-WM2005WI can work in fit or fat mode. It can flexibly switch between the fit mode and the fat mode according to network planning requirements. Its support for both the fit mode and the fat mode enables customers to smoothly upgrade their small wireless local area networks (WLANs) to large networks, thereby well protecting customer's investment.

Technical Specifications:-

Hardware Specifications

Item	DG-WM2005WI
Dimensions (mm)	86 (length) x 86 (width) x 39.9 (height)
The rear panel Interface	2 1000M ports
Front panel Interface	4 10/100M ports: 1 Bypass 1000M
PoE	802.3af
Local power supply	48 V DC local power supply
Transmit power	17 dBm
Equivalent isotropically radiated power (EIRP)	20 dBm
Maximum power consumption	4W
Antenna	Two built-in 3.5 dBi antenna
Working environment temperature	0°C to 40°C
Working environment humidity	1% to 95% (non-condensing)

**Technical Specifications:-****Software Specifications**

Item	Feature	DG-WM1001WI	
WLAN	Product positioning	Indoor wall-mounted single-frequency	
	Working frequency band	2.4 GHz	
	Virtual AP (BSSID)	16	
	Number of spatial streams	1	
	Dynamic channel adjustment (DCA)	Yes	
	Transmit power control (TPC)	Yes	
	Blind area detection and repair	Yes	
	SSID hiding	Yes	
	RTS/CTS	Yes	
	RF environment scanning	Yes	
	Hybrid access	Yes	
	Restriction on the number of access users	Yes	
	Link integrity check	Yes	
	Prohibiting the access of terminals with weak signals	Yes	
	Forced roaming of terminals with weak signals	Yes	
Intelligent control of terminals based on airtime fairness	Yes		
High-density application optimization	Yes		
11n enhancements	40 MHz bundling	Yes	
	300 Mbps (PHY)	Yes	
	Frame aggregation (A-MPDU)	Yes	
	Maximum likelihood demodulation (MLD)	Yes	
	Transmit beam forming (TxBF)	Yes	
	Maximum ratio combining (MRC)	Yes	
	Space-time block coding (STBC)	Yes	
	Low-density parity-check code (LDPC)	Yes	
Security	Encryption	64/128 WEP, dynamic WEP, TKIP, and CCMP encryption	
	802.11i	Yes	
	WAPI	Yes	
	MAC address authentication	Yes	
	LDAP authentication	Yes	
	PEAP authentication	Yes	
	WIDS/WIPS	Yes	
	Real-time spectrum protection	Yes	
	Protection against DoS attacks	Anti-DoS for wireless management packets	
	Forwarding security	Frame filtering, white list, static blacklist and dynamic blacklist	
	User isolation	AP L2 forwarding suppression	
		Isolation between virtual APs (multiple SSIDs)	
	Periodic SSID enabling and disabling	Yes	
Access control of free resources	Yes		



Item	Feature	DG-WM2001WI	
	Secure admission control of wireless terminals	Secure admission control of wireless terminals based on DCSM	
	Wireless SAVI	Yes	
	ACL	Access control of various data packets such as MAC, IPv4 & IPv6	
	Secure access control of APs	Secure access control of APs, such as MAC authentication, password authentication, or digital certificate authentication between an AP and an AC	
Forwarding	IP address setting	Static IP address configuration or dynamic DHCP address allocation	
	IPv6 forwarding	Yes	
	IPv6 portal	Yes	
	Local forwarding	Yes	
	Multicast	IGMP Snooping	
	Roaming		Fast roaming across APs
			Fast roaming across ACs
	AP switching reference	Signal strength, bit error rate, RSSI, S/N, whether neighboring Aps are normally operating, etc.	
WDS	Yes		
QoS	WMM	Yes	
	Priority mapping	Ethernet port 802.1P identification and marking	
		Mapping from wireless priorities to wired priorities	
	QoS policy mapping	Mapping of different SSIDs/VLANs to different QoS policies	
		Mapping of data streams that match with different packet fields to different QoS policies	
	L2-L4 packet filtering and flow classification	Yes: MAC, IPv4, and IPv6 packets	
Load balancing		Load balancing based on the number of users	
		Load balancing based on user traffic	
		Load balancing based on frequency bands	
Bandwidth limit		Bandwidth limit based on APs	
		Bandwidth limit based on SSIDs	
		Bandwidth limit based on terminals	
		Bandwidth limit based on specific data streams	
	Call admission control (CAC)	CAC based on the number of users	
	Power saving mode	Yes	
	Automatic emergency mechanism of APs	Yes	
	Intelligent identification of terminals	Yes	
	Wireless network VAS	Abundant wireless network VASs; applications based on smart terminals; advertisement push based on site locations; personalized push of the portal	
	Multicast enhancement	Multicast to unicast	



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Item	Feature	DG-WM2001WI
Management	Network management	Centralized management through an AC; both fit and fat modes
	Maintenance mode	Both local and remote maintenance
	Log function	Local logs, Syslog, and log file export
	Alarm	Yes
	Fault detection	Yes
	Statistics	Yes
	Switching between the fat and fit modes	An AP working in fit mode can switch to the fat mode through a wireless AC; An AP working in fat mode can switch to the fit mode through a local control port or Telnet.
	Remote probe analysis	Yes
	Dual-image (dual-OS) backup mechanism	Yes
	Watchdog	Yes

Ordering Information:-

DG-WM2005WI : DIGISOL 802.11n In-wall PoE wireless AP (2.4GHz single band, 2x2, 300Mbps, Internal antenna)

*Standard Warranty shall be subject to terms and conditions specified in the DIGISOL PRODUCT WARRANTY displayed on the website of the company.

Power adapter need to be ordered separately.

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