



DIGISOL™

WIRELESS AND BROADBAND

DIGISOL Outdoor Wireless Access Point

DG-WM5317IOAC

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-WM5317IOAC is 802.11ac-based high-performance gigabit outdoor wireless access points (APs) from DIGISOL. The DG-WM5317IOAC uses GE ports as its uplink ports for access, which eliminates limitations of FE ports and enables wireless multimedia applications.

While completely taking into consideration important factors, such as wireless network security, radio frequency (RF) control, mobile access, quality of service (QoS) guarantee, and seamless roaming, the DG-WM5317IOAC can be used with DIGISOL wireless controller to perform data forwarding, security, and access control of wireless users.

The DG-WM5317IOAC operates in a 2.4 GHz and 5 GHz band and deploys technologies such as multiple-input multiple-output (MIMO) and orthogonal frequency division multiplexing (OFDM), providing a data transmission rate of at most 300 Mbps in 2.4GHz band and 867Mbps in 5GHz band.

The DG-WM5317IOAC employs IP67 class housing which is solid, waterproof, and dustproof, enabling the device to suit an adverse environment. The DG-WM5317IOAC is high performance wireless AP preferred in various outdoor application environments for purposes such as campus WLAN access, campus coverage, and operators' hot spot coverage.



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Technical Specifications:-

Hardware Specifications

Item	DG-WM5317IOAC
Dimensions (mm)	220 x 220 x 80
10/100 /1000Base-T port	1
PoE	802.3at
Maximum power consumption	25W
Antenna	Internal antenna, 5dBi, H180
Working frequency band	802.11a/n : 5.150 GHz to 5.850 GHz
	802.11b/g/n : 2.4 GHz to 2.483 GHz
	802.11ac:
	5.150GHz to 5.250GHz
	5.250GHz to 5.350GHz
	5.725GHz to 5.850GHz
Modulation technology	802.11b: BPSK, QPSK, CCK
	802.11a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
	802.11ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Transmit power	Maximum 27 dBm for all rate levels and modulation modes
Power adjustment granularity	1 dBm
Working/Storage temperature	-30°C to +65°C
	-40°C to +85°C
Working/Storage RH	5% to 95% (non-condensing)
Protection level	IP67



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Technical Specifications:-

Software Specifications

Item	Feature	DG-WM5307IAC
WLAN	Product positioning	Outdoor Dual-frequency
	Working frequency band	2.4 Ghz and 5 GHz
	Virtual AP (BSSID)	32
	Number of spatial streams	2
	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

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Software Specifications

Item	Feature	DG-WM5307IAC
	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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Software Specifications

Item	Feature	DG-WM5307IAC
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-WM5317IOAC: DIGISOL 802.11abgn/ac outdoor high-performance wireless AP (2.4 GHz & 5 GHz dual-channel dual-frequency, internal 5dBi antenna, 1.167Gbps, 802.3at PoE)

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

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DIGISOL SYSTEMS LIMITED
215 Atrium Bldg., 2nd Floor,
B-Wing, Opp. Big Cinema,
Courtyard Marriott Compound,
Andheri-Kurla Road,
Andheri (E), Mumbai - 400093.



1800-209-3444



www.digisol.com



helpdesk@digisol.com

[@DIGISOLINDIA](https://www.facebook.com/DIGISOLINDIA)