Data General

Triple band

Triple radio

7800 Mbps

Access Point WiFi6E AX7800

DG-AP880E-AX7800

Product Pictures

Product Overview

The DG-AP880E-AX7800 is a WiFi 6E wireless access point that delivers tri radios, high performance, and enterprise-grade encryption. Its hybrid cloud management mode and high-density access design allow the DG-AP880E-AX7800 to be flexibly deployed in high-quality network scenarios, such as classrooms, dormitories, and large venues in the education industry, outpatient clinics and mobile ward rounds in the medical industry, and large conference centers in government and commerce industries.

Product Highlights

Ultra-High Performance

- Tri-band design (2.4 GHz + 5 GHz + 6 GHz), six spatial streams, 1024-Quadrature Amplitude Modulation (QAM) high-speed access, and up to 7.780 Gbps peak data rate, realizing high-speed wireless access experience.
- WiFi 6E technology to leverage 6 GHz spectrum resources and deliver a data rate of up to 4.804 Gbps at 6 GHz radio, providing supreme wireless experience to users.
- RF power adjustment and intelligent channel allocation to solve the problems such as co-channel interference and adjacent channel interference, thereby improving network transmission efficiency and stability.

Flexible Networking

- Local and cloud management modes, and intelligent wireless network optimization, reducing TCO and maximizing ROI.
- Access through optical and Ethernet cables for flexible networking and high-speed backhaul over 5 Gbps wired links.
- IEEE 802.11k/v/r support, roaming stickiness optimization, and client steering, achieving seamless roaming and improved user experience.
- Rich IoT features: PoE output, Bluetooth 5.1, and wireless locating.

High Security and Reliability

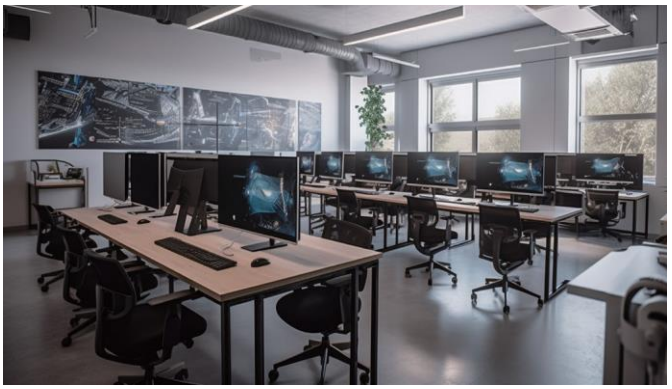
- Encryption and authentication technologies including WiFi Protected Access 3 (WPA3), enhanced open security, 802.1X, and Private Pre-shared Key (PPSK), enhancing data security.
- Dynamic Frequency Selection (DFS), optimizing the use of available RF spectrum to prevent radar channel interference.
- Cyclic Delay/Shift Diversity (CDD/CSD), Maximum Ratio Combining (MRC), Space-Time Block Coding (STBC), and Low-Density Parity Check (LDPC), improving the signal quality, signal receiving, and reliability and performance of data transmission.
- Transmit beamforming (TxBF) expands the signal coverage and enhances the reliability of specific devices, thereby improving the data rate.
- Intelligent identification and monitoring, multicast- to-unicast conversion, and other features, enhancing network security and reliability.

Applicable Scenarios

Higher Education

Classroom and Lab

Deploying WiFi in classrooms and labs enables students and teachers to access network resources with ease, thereby enhancing the quality of teaching and learning. Students can engage in online learning, access course materials, and collaborate with classmates, while teachers can access teaching resources and deliver multimedia lessons.



Library

WiFi deployment in libraries facilitates quick access to online resources such as e-books and academic papers for research and study by students and teachers.

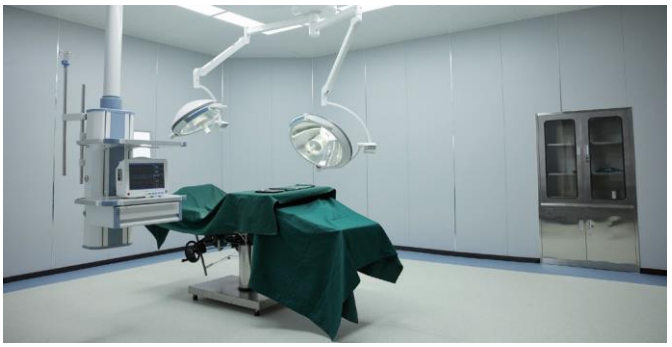
Healthcare

Outpatient Service

The WiFi network provides a mobile office environment for medical staff. Medical staff can use mobile devices to view patient information in real time, which significantly improves treatment efficiency. Patients can access relevant medical information through smart devices online, resulting in improved satisfaction.

Remote Monitoring and Management of Medical Devices

With WiFi deployment, remote monitoring and management of medical devices become possible. Wireless medical devices such as ECG monitors and blood pressure monitors can transmit patient data in real time, thereby improving information security. Additionally, these wireless medical devices can be easily maintained and upgraded, resulting in cost reductions.



Government and Commerce

Large Conference Center

Deploying WiFi in conference centers enables high-definition conference broadcasting, remote conferencing, and allows all attendees to simultaneously access wireless networks, thereby improving conference efficiency.

Product Features

Multi-scenario Adaptability

The DG-AP880E-AX7800, a tri-band ceiling-mounted wireless access point. Ii is ideal for a wide range of applications, including higher education, government, general education, finance, and business sectors, providing flexible solutions to meet diverse service needs.

High-speed Access and Compatibility

The DG-AP880E-AX7800 supports various wireless protocols, such as 802.11ax, 802.11ac Wave2, 802.11ac Wave1, and 802.11n. It features a hardware-independent tri- radio design to deliver a data rate of up to 7.780 Gbps, effectively eliminating wireless performance bottlenecks. Additionally, it is compatible with an extensive array of devices, promoting seamless interconnectivity among employees and customers.

Security and Scalability

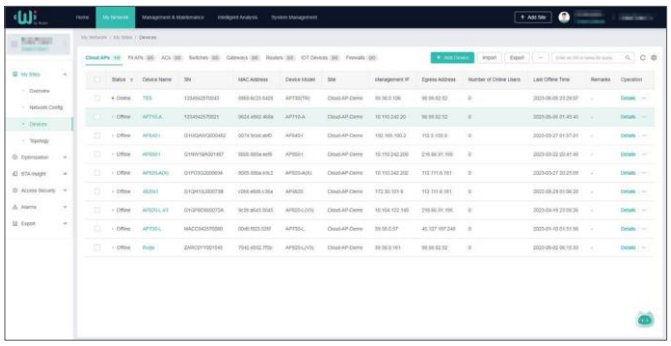
The DG-AP880E-AX7800 stands out with its exceptional wireless network security, RF control, mobile access, QoS guarantee, seamless roaming, and IoT module expansion. With Data General's wireless access controller (AC), it enables wireless user data forwarding, security, access control, and IoT application expansion to cope with diverse service needs.

Flexible Deployment and Power Supply

The DG-AP880E-AX7800 supports both local power supply and Power over Ethernet (PoE), providing you with the flexibility to choose the power supply mode. In addition, the DG- AP880-E can be mounted against a wall or ceiling, making space deployment and environmental requirements less challenging. This makes the DG-AP880E-AX7800 particularly suitable for scenarios such as large campuses, conference centers, enterprise offices, and operation hotspots.

Solution Scalability Capabilities

Data General WIS Cloud Management Network Solution (WIS for short) provides full-lifecycle cloud management network services covering network procurement, planning, deployment, acceptance, and O&M. When the AP connects to WIS, it can meet various needs in multiple scenarios including planning, deployment, acceptance, and operation through cloud management, cloud O&M, cloud authentication, and other value-added services provided by WIS.



Network-wide Cloud Management

WIS supports integrated management and control of various types of devices including APs, ACs, switches, gateways, and routers. It supports remote O&M management operations such as adding or batch importing of multi-branch network devices, online status monitoring, configuration delivery, upgrade, restart, configuration backup, and restoration. It supports network-wide topology auto-discovery and topology status monitoring.

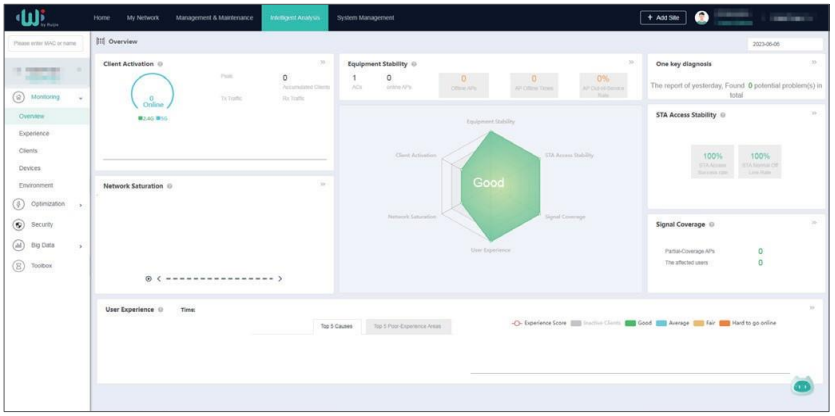
Wireless Network Visualization

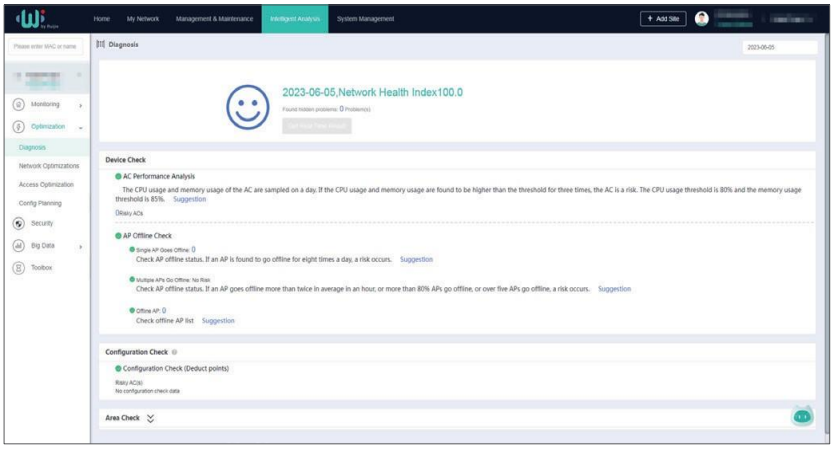
The overview function module of WIS provides a comprehensive view of the network running status from the perspective of overview, experience, users, devices, and environment. The network running information includes the following items:

- Network basic information: device stability, device health, user stability, network signal coverage, and network association.
- User usage: user activity (network dependency), and user online experience and analysis.
- Network saturation: network capacity usage and channel usage.

Intelligent Network Diagnosis

With WIS, wireless network diagnosis and health index assessment can be completed in just one click, providing test results for each item. The health index provided by WIS enables you to rapidly assess the state of your live network. WIS can locate faulty areas, APs, and STAs, and provides potential risks and corresponding optimization suggestion.





Product Specifications

Hardware Specifications

Hardware Specifications	DG-AP880E-AX7800
802.11n	Four spatial streams Radio 1 – 2.4 GHz: 2x2 MIMO, two spatial streams Radio 2 – 5 GHz: 2x2 MIMO, two spatial streams Channels: Radio 1 – 2.4 GHz: 20 MHz and 40 MHz Radio 2 – 5 GHz: 20 MHz and 40 MHz Combined peak data rate: 600 Mbps Radio 1 – 2.4 GHz: 6.5 Mbps to 300 Mbps (MCS0 to MCS15) Radio 2 – 5 GHz: 6.5 Mbps to 300 Mbps (MCS0 to MCS15) Radio technologies: Orthogonal Frequency-Division Multiplexing (OFDM) Modulation types: BPSK, QPSK, 16-QAM, 64-QAM Packet aggregation: Aggregate MAC Protocol Data Unit (A-MPDU) Aggregate MAC Service Data Unit (A-MSDU) Dynamic Frequency Selection (DFS) Cyclic Delay/Shift Diversity (CDD/CSD) Maximum Ratio Combining (MRC) Space-Time Block Coding (STBC) Low-Density Parity Check (LDPC) Transmit beam-forming (TxBF)
802.11ac	Two spatial streams Radio 2 – 5 GHz: 2x2 MIMO, two spatial streams Channels: Radio 2 – 5 GHz: 20 MHz, 40 MHz, 80 MHz, and 160 MHz Combined peak data rate: 1.733 Gbps Radio 2 – 5 GHz: 6.5 Mbps to 1.733 Gbps (MCS0 to MCS9) Radio technologies: Orthogonal Frequency-Division Multiplexing (OFDM) Modulation types: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Packet aggregation: Aggregate MAC Protocol Data Unit (A-MPDU) Aggregate MAC Service Data Unit (A-MSDU) Dynamic Frequency Selection (DFS) Cyclic Delay/Shift Diversity (CDD/CSD) Maximum Ratio Combining (MRC) Space-Time Block Coding (STBC) Low-Density Parity Check (LDPC) Transmit beam-forming (TxBF)

Hardware Specifications	DG-AP880E-AX7800
802.11ax	Eight spatial streams • Radio 1 – 2.4 GHz: 2x2 uplink/downlink MU-MIMO, two spatial streams Radio 2 – 5 GHz: 2x2 uplink/downlink MU-MIMO, two spatial streams • Radio 3 – 6 GHz: 4x4 uplink/downlink MU-MIMO, four spatial streams Channels: • Radio 1 – 2.4 GHz: 20 MHz and 40 MHz Radio 2 – 5 GHz: 20 MHz, 40 MHz, 80 MHz, and 160 MHz Radio 3 – 6 GHz: 20 MHz, 40 MHz, 80 MHz, and 160 MHz Combined peak data rate: 7.780 Gbps: Radio 1 – 2.4 GHz: 8.6 Mbps to 0.574 Gbps (MCS0 to MCS11) Radio 2 – 5 GHz: 8.6 Mbps to 2.402 Gbps (MCS0 to MCS11) Radio 3 – 6 GHz: 8.6 Mbps to 4.804 Gbps (MCS0 to MCS11) Radio technologies: uplink/downlink Orthogonal Frequency-Division Multiple Access (OFDMA) Modulation types: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM Packet aggregation: Aggregate MAC Protocol Data Unit (A-MPDU) Aggregate MAC Service Data Unit (A-MSDU) Dynamic Frequency Selection (DFS) Cyclic Delay/Shift Diversity (CDD/CSD) Maximum Ratio Combining (MRC) Space-Time Block Coding (STBC) Low-Density Parity Check (LDPC) Transmit beam-forming (TxBF) WPA3
Antenna	WiFi 2.4 GHz: two built-in omnidirectional antennas, the max. antenna gain is 5.4 dBi. 5 GHz: two built-in omnidirectional antennas, the max. antenna gain is 5.2 dBi. 6 GHz: four built-in omnidirectional antennas, the max. antenna gain is 5.4 dBi. Bluetooth One integrated vertically polarized omnidirectional antenna, the max. antenna gain is 4.6 dBi.
Port	1 x 100/1000/2500/5000Base-T RJ45 Ethernet port with auto-negotiation 1 x 5GE combo port (SFP port/electrical port), compatibility with 1GE and 2.5GE SFP 1 x 10/100/1000Base-T RJ45 Ethernet port with auto-negotiation 1 x RJ45 console port (serial console port) 1 x USB 3.0 (Type-A connector) 1 x Bluetooth 5.1
Status LED	1 x multi-color system status LED AP power-on status Software initialization status and upgrade status Uplink service interface status Wireless user online status CAPWAP tunnel timeout Specific AP locating

Hardware Specifications	DG-AP880E-AX7800
Button	1 x Reset button Press the button for shorter than 2 seconds. Then the device restarts. Press the button for longer than 5 seconds. Then the device restores to factory settings.
Dimensions (W x D x H)	Main unit: 230 mm x 230 mm x 51 mm (9.06 in. x 9.06 in. x 2.01 in.) Shipping: 284 mm x 262 mm x 124 mm (11.2 in. x 10.4 in. x 4.9 in.)
Weight	Main unit: 1.0 kg (2.20 lbs) Mounting bracket: 0.1 kg (0.22 lbs) Shipping: 1.25 kg (2.76 lbs)
Mounting	Wall/Ceiling-mount (a mounting bracket is delivered with the main unit)
Lock option	Kensington lock and securing latch
Input power supply	The AP supports the following two power supply modes: 54 V DC/1.1 A power input over DC connector: The DC connector accepts 2.1 mm/5.5 mm center-positive circular plug. A DC power supply needs to be purchased independently. PoE input over LAN 1: The power source equipment (PSE) complies with IEEE 802.3af/at/bt standard (PoE/PoE+/PoE++). Note: If both DC power and PoE are available, DC power is preferred.
Power consumption	Maximum power consumption: 40 W DC power: 40 W, 2.4 GHz radio 2x2, 5 GHz radio 2x2, 6 GHz radio 4x4, LAN 2 for PoE supply, and USB port enabled. 802.3bt (PoE++): 40 W, 2.4 GHz radio 2x2, 5 GHz radio 2x2, 6 GHz radio 4x4, LAN 2 for PoE supply, and USB port enabled. 802.3at (PoE+): 23 W, 2.4 GHz radio 2x2, 5 GHz radio 2x2, 6 GHz radio 4x4, LAN 2 and USB port that fail to provide power for external devices (PoE out disabled of LAN 2 and USB port disabled) 802.3af (PoE): 12.95 W, 2.4 GHz radio 1x1, 5 GHz radio 1x1, 6 GHz radio 1x1, LAN 2 and USB port that fail to provide power for external devices (PoE out disabled of LAN 2 and USB port disabled). Idle mode: 10.3 W
External power supply	When powered by 802.3bt (PoE++), the AP can supply power to an external device. The USB port can source 1 A/5 W power to an attached device. The LAN 2 port can source 48 V/12.95 W power to an IoT unit.

Hardware Specifications	DG-AP880E-AX7800
Environment	Storage temperature: –40°C to +70°C (–40°F to +158°F) Storage humidity: 5% RH to 95% RH (non-condensing) Storage altitude: < 5,000 m (16,404.20 ft.) at 25°C (77°F) Operating temperature: –10°C to +50°C (14°F to 122°F) Operating humidity: 5% RH to 95% RH (non-condensing) Operating altitude: < 3,000 m (9,842.52 ft.) at 40°C (104°F) At an altitude between 3,000 m (9,842.52 ft.) and 5,000 m (16,404.20 ft.), every time the altitude increases by 166 m (546 ft.), the maximum temperature decreases by 1°C (1.8°F).
Mean Time Between Failure (MTBF)	200,000 hours (22 years) at the operating temperature of 25°C (77°F)
System memory	512 MB DRAM, 256 MB flash
Transmit power	2.4 GHz Max. transmit power: 27 dBm (500 mW) Min. transmit power: 7 dBm (5.01 mW) 5 GHz Max. transmit power: 30 dBm (1000 mW) Min. transmit power: 6 dBm (3.98 mW) 6 GHz Max. transmit power: 26 dBm (398 mW) Min. transmit power: 9 dBm (7.94 mW) Note: The transmit power adjusted in percentage. The transmit power is limited by local regulatory requirements.

The following table lists the radio frequency performance of WiFi including different frequency bands, protocols, and date rates. It is country-specific, and Data General reserves the right of interpretation.

Radio Frequency Performance	DG-AP880E-AX7800		
Frequency Band and Protocol	Data Rate	Max. Transmit Power per Transmit Chain	Max. Receive Sensitivity per Receive Chain
2.4 GHz, 802.11b	1 Mbps	24 dBm	-96 dBm
	2 Mbps	24 dBm	-95 dBm
	5.5 Mbps	23 dBm	-93 dBm
	11 Mbps	22 dBm	-89 dBm

Radio Frequency Performance	DG-AP880E-AX7800		
Frequency Band and Protocol	Data Rate	Max. Transmit Power per Transmit Chain	Max. Receive Sensitivity per Receive Chain
2.4 GHz, 802.11g	6 Mbps	24 dBm	-91 dBm
	24 Mbps	23 dBm	-85 dBm
	36 Mbps	23 dBm	-80 dBm
	54 Mbps	21 dBm	-74 dBm
2.4 GHz, 802.11n (HT20)	MCS0	24 dBm	-90 dBm
	MCS7	20 dBm	-70 dBm
2.4 GHz, 802.11n (HT40)	MCS0	24 dBm	-90 dBm
	MCS7	20 dBm	-70 dBm
2.4 GHz, 802.11ax (HE20)	MCS0	24 dBm	-90 dBm
	MCS11	16 dBm	-62 dBm
2.4 GHz, 802.11ax (HE40)	MCS0	24 dBm	-88 dBm
	MCS11	16 dBm	-60 dBm
5 GHz, 802.11a	6 Mbps	23 dBm	-91 dBm
	24 Mbps	22 dBm	-85 dBm
	36 Mbps	22 dBm	-80 dBm
	54 Mbps	21 dBm	-74 dBm
5 GHz, 802.11n (HT20)	MCS0	23 dBm	-90 dBm
	MCS7	20 dBm	-68 dBm
5 GHz, 802.11n (HT40)	MCS0	23 dBm	-88 dBm
	MCS7	20 dBm	-68 dBm

Radio Frequency Performance	DG-AP880E-AX7800		
Frequency Band and Protocol	Data Rate	Max. Transmit Power per Transmit Chain	Max. Receive Sensitivity per Receive Chain
5 GHz, 802.11ac (VHT20)	MCS0	23 dBm	-90 dBm
	MCS9	18 dBm	-68 dBm
5 GHz, 802.11ac (VHT40)	MCS0	23 dBm	-88 dBm
	MCS9	18 dBm	-63 dBm
5 GHz, 802.11ac (VHT80)	MCS0	23 dBm	-85 dBm
	MCS9	18 dBm	-60 dBm
5 GHz, 802.11ax (HE20)	MCS0	23 dBm	-90 dBm
	MCS11	16 dBm	-60 dBm
5 GHz, 802.11ax (HE40)	MCS0	23 dBm	-86 dBm
	MCS11	16 dBm	-56 dBm
5 GHz, 802.11ax (HE80)	MCS0	23 dBm	-83 dBm
	MCS11	16 dBm	-53 dBm
5 GHz, 802.11ax (HE160)	MCS0	23 dBm	-81 dBm
	MCS11	16 dBm	-51d Bm
6GHz 802.11ax (HE20)	MCS0	22 dBm	-90 dBm
	MCS11	16 dBm	-60 dBm
6GHz 802.11ax (HE40)	MCS0	22 dBm	-86 dBm
	MCS11	16 dBm	-56 dBm
6GHz 802.11ax (HE80)	MCS0	22 dBm	-83 dBm
	MCS11	16 dBm	-53 dBm

Radio Frequency Performance	DG-AP880E-AX7800		
Frequency Band and Protocol	Data Rate	Max. Transmit Power per Transmit Chain	Max. Receive Sensitivity per Receive Chain
6GHz 802.11ax (HE160)	MCS0	22 dBm	-81 dBm
	MCS11	16 dBm	-51 dBm

Software Specifications

Software Specifications	DG-AP880E-AX7800
Basic Functions	
Applicable software version	RGOS11.9(6)W3B4 or later
WLAN	
Max. number of associated STAs	1,536 (up to 512 STAs per radio)
Max. number of BSSIDs	45 (up to 15 BSSIDs per radio)
Max. number of WLAN IDs	15
STA management	SSID hiding Each SSID can be configured with the authentication mode, encryption mechanism, and VLAN attributes independently. Remote Intelligent Perception Technology (RIPT) Intelligent STA identification technology Intelligent load balancing based on the STA quantity or traffic
STA limiting	SSID-based STA limiting Radio-based STA limiting
Bandwidth limiting	STA/SSID/AP-based rate limiting
CAPWAP	IPv4/IPv6 CAPWAP Layer 2 and Layer 3 topology between an AP and an AC An AP can automatically discover the accessible AC. An AP can be automatically upgraded through the AC. An AP can automatically download the configuration file from the AC. CAPWAP through NAT
Data forwarding	Centralized and local forwarding

Software Specifications	DG-AP880E-AX7800
Wireless roaming	Layer 2 and Layer 3 roaming
Wireless locating	MU and TAG device locating
Security and Authentication	
Authentication and encryption	Remote Authentication Dial-In User Service (RADIUS) PSK and web authentication QR code-based guest authentication, SMS authentication, and MAC address bypass (MAB) authentication Data encryption: WEP (64/128 bits), WPA (TKIP), WPA-PSK, WPA2 (AES), WPA3-Enterprise, WPA3-Individual
Data frame filtering	Allowlist, static blocklist, and dynamic blocklist
WIDS	Wireless Intrusion Detection System(WIDS) User isolation Rogue AP detection and containment
ACL	IP standard ACL, MAC extended ACL, IP extended ACL, and expert-level ACL IPv6 ACL Time range-based ACL ACL based on a Layer 2 interface ACL based on a Layer 3 interface Ingress ACL based on a wireless interface Dynamic ACL assignment based on 802.1X authentication (used with the AC)
CPP	CPU Protect Policy (CPP)
NFPP	Network Foundation Protection Policy (NFPP)
Routing and Switching	
MAC	Static and filtered MAC addresses MAC address table size: 2,048 Max. number of static MAC addresses: 2,048 Max. number of filtered MAC addresses: 2,048
Ethernet	Jumbo frame length: 1,518 Full-duplex and half-duplex modes of interfaces IEEE802.1p and IEEE802.1Q Optical module information display, alarms about faults, and diagnosis parameter measurement (QSFP+/SFP+/SFP)

Software Specifications	DG-AP880E-AX7800
VLAN	Interface-based VLAN assignment Max. number of SVIs: 200 Max. number of VLANs: 4,094 VLAN ID range: 1–4,094
ARP	ARP entry aging, gratuitous ARP learning, and proxy ARP Identification of IP address conflict among downlink users Max. number of ARP entries: 2,048 ARP check
IPv4 services	Static and DHCP-assigned IPv4 addresses NAT, FTP ALG and DNS ALG
IPv6 services	IPv6 addressing, Neighbor Discovery (ND), ICMPv6, IPv6 ping IPv6 DHCP client DNSv6 client TFTPv6 client
IP routing	IPv4/IPv6 static route Max. number of static IPv4 routes: 1,024 Max. number of static IPv6 routes: 1,000
Multicast	Multicast-to-unicast conversion
VPN	PPPoE client IPsec VPN
Network Management and Monitoring	
Network management	NTP server and NTP client SNTP client SNMPv1/v2c/v3 Fault detection and alarm Information statistics and logging
Network management platform	Web management (Eweb)
User access management	Console, Telnet, SSH, FTP client, FTP server, and TFTP client
Switchover among Fat, Fit, and cloud modes	When the AP works in Fit mode, it can be switched to Fat mode through an AC. When the AP works in Fat mode, it can be switched to Fit mode through the console port or Telnet mode. When the AP works in cloud mode, it can be managed through Data General Cloud.

Value-added Software

The following value-added software functions can be achieved with the WIS solution (used with DG-iData-WIS and wireless controller).

Value-added Software	DG-AP880E-AX7800
Intelligent O&M	
Experience	Network operation analysis, such as device stability and signal coverage Measuring users' network experience based on indicators such as the latency, packet loss, signal strength, and channel utilization, and visualizing results of the network experience Statistics on the number of online and offline failures of STAs associated with different APs, average signal strength, and other parameters VIP monitoring and alarm, and custom alarm thresholds STA global experience map and experience coverage evaluation based on the time range STA access protocol replay and fine-grained STA fault diagnosis Note: To support the preceding functions, ensure that the AP works in Fit mode.
Network optimization	Network performance optimization, including one-click network optimization and scenario-based optimization Client steering to cope with roaming stickiness, and experience indicator comparison Client steering to cope with remote association, and experience indicator comparison One-click diagnosis – analyzing problems and providing suggestions
Big data	Baseline analysis – recording the configuration, version, and other changes, and tracking network KPI changes Time capsule – analyzing the device version and configuration change history
Regional analysis	Batch generation of building floor information – uploading floor plans, and dragging and dropping AP positions
One-click report	One-click health report – generating a report on the overall operation of a network
Security radar	Unauthorized WiFi signal location, presentation by category, and containment
Cloud Management	
Management and maintenance	Uniformly connecting, managing, and maintaining APs, ACs, and other devices, batch device configuration and upgrade, and other functions Deployment through Zero Touch Provisioning (ZTP) – creating configuration templates and automatically applying configured templates One-click discovery of the wired and wireless network topology and topology generation
Cloud Authentication	
Authentication mode	SMS authentication, fixed account authentication, one-click authentication, Facebook authentication, Instagram authentication, voucher authentication, and other authentication modes Authentication implemented in the cloud, without the need to deploy the local authentication server

Value-added Software	DG-AP880E-AX7800
Customized portal	Customized Portal authentication page for mobile phones and PCs
SMS gateway	Interconnection with SMS gateways of GUODULINK and Alibaba Cloud
Platform Capabilities	
Big data capabilities	Mainstream persistence solutions based on Hadoop, MongoDB, and MySQL, providing distributed storage capabilities Spark-based big data computing capabilities Data warehouse building based on Hive, and data model conversion, integration, and other functions
Hierarchy and decentralization	Authorizing different applications for different users to meet service needs of different departments Granting operation permissions to administrators in different scenarios
System management	Account operation, authorization configuration, email configuration, configuration backup, exception alarms, and other system management functions

Note: For details, refer to the latest hybrid cloud management solution.

Regulatory Compliance

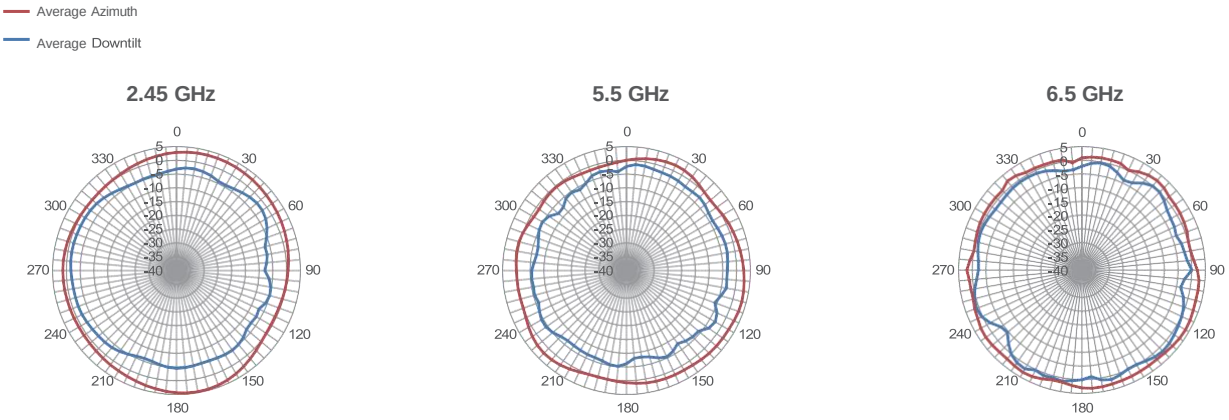
Regulatory Compliance	DG-AP880E-AX7800
Regulatory compliance	EN 55032, EN 55035, EN 61000-3-3, EN IEC 61000-3-2, EN 301 489-1, EN 301 489-3, EN 301 489-17, EN 300 328, EN 301 893, EN 300 440, FCC Part 15, ETSI EN 303 687, EN IEC 62311, IEC 62368-1, and EN 62368-1

* For more country-specific regulatory information and approvals, contact your local sales agency.

Antenna Pattern Plots

Horizontal Planes (Top View)

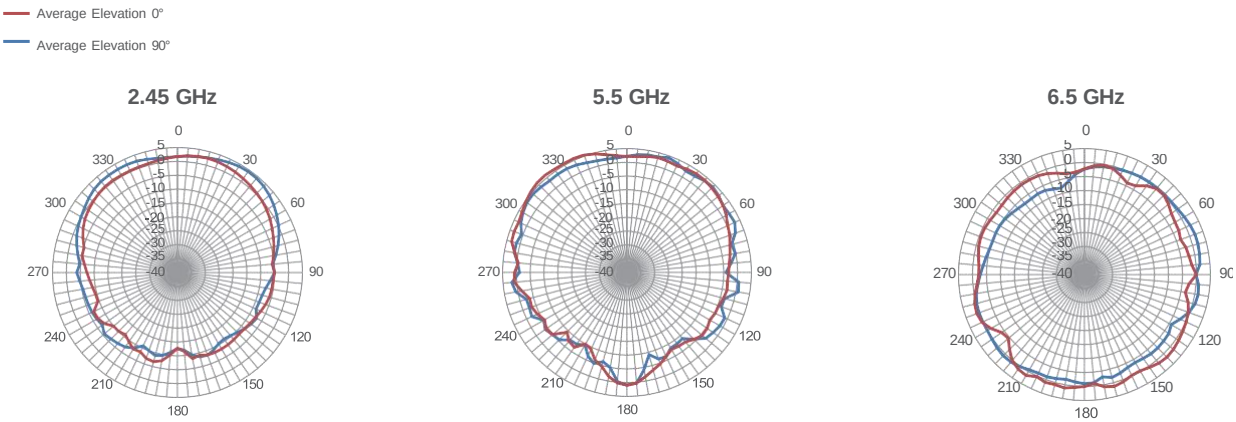
The following figures show the azimuth antenna pattern at 2.4 GHz, 5 GHz and 6 GHz radios.



2.45GHz(2.4G-ANT1,2)　　5.5GHz(5G-ANT1,2)　　6.5GHz(6G-ANT1,2,3,4)

Vertical Planes (Side View, AP Facing Down)

The following figures shows the elevation antenna pattern at 2.4 GHz , 5 GHz and 6 GHz radios.



2.45GHz(2.4G-ANT1,2)　　5.5GHz(5G-ANT1,2)　　6.5GHz(6G-ANT1,2,3,4)

Note: Operating frequency bands are country-specific.

Ordering Information

Model	Description
DG-AP880E-AX7800	WiFi 6E 802.11ax-compliant indoor high-density wireless access point Tri radios, eight spatial streams, peak data rate of 7.780 Gbps Radio 1: 2.4 GHz: two spatial streams, 2x2 MU-MIMO, peak data rate of 574 Mbps Radio 2: 5 GHz: four spatial streams,2x2 MU-MIMO, peak data rate of 2.402 Gbps Radio 2: 6 GHz: four spatial streams, 4x4 MU-MIMO, peak data rate of 4.804 Gbps 802.11a/b/g/n/ac/ax, switching between Fat, Fit, and cloud modes, and 802.3af/at/bt PoE and local DC power supply Note: The power source equipment (PSE) needs to be purchased separately. The DC power supply needs to be purchased separately, and the output voltage/current must be 54 V/1.1 A.
DG-POE-BT	802.3bt 90w Gigabit PoE++ injector
DG-POE-BT-5	802.3bt 90w 5 Gbps PoE++ injector
DG-MG-LX-SM1310-BIDI	Transceiver SFP 2.5G BIDI TX1310/RX1550, 3 km, LC
DG-MG-LX-SM1550-BIDI	Transceiver SFP 2.5G BIDI TX1550/RX1310, 3 km, LC

Package Contents

Item	Quantity
Main unit	1
Mounting bracket	1
Wall anchor	4
4.2 mm x 20 mm Phillips pan head self-tapping screw	4
Warranty Card and Hazardous Substance Table	1
Hardware Installation and Reference Guide	1

Warranty

For more information about warranty terms and period, contact your local sales agency:

- Warranty terms: https://www.datageneral.pro/warranty

Note: The warranty terms are subject to the terms of different countries and distributors.

More Information

For more information about Data General, visit the official Data General website or contact your local sales agency:

- Data General official website: https://www.datageneral.pro/
- Online support: https://www.datageneral.pro/support
- Hotline support: https://www.datageneral.pro/support
- Email support: support@datageneral.pro

Protecting your network,
protecting you

Data General

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