# D-Lite Cloud Overview

The user can access D-Lite Cloud from the web to manage and configure off-site locations. The internet traffic does not pass through the cloud, compliant with the latest data protection and privacy regulations. Security is assured with out-of-band, SSL-encrypted management plane backed with a 99.99% uptime service level agreement. If the Cloud service is down this will not affect the service of local locations.
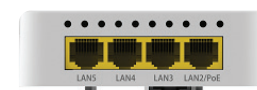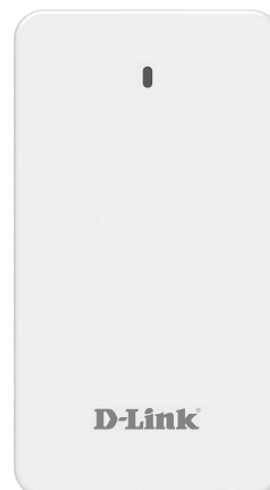
DLA-X182

D-Lite Cloud-Managed AX3000 Faceplate Acess Point (with PoE out)

Features

- Cloud Management
- Zero-Touch Deployment
- Intuitive Interface
- Unlimited Scalability
- Band Steering
- Bandwidth Optimization
- Auto Channel Management
- Authentication via Customizable Captive Portal, 802.1x and RADIUS Server
- Social Login for Guest Wi-Fi Access
- End-to-End Encryption
- Event Log and Change Log
- Over-the-Air Firmware Upgrades
- Real Time Traffic Reporting & Analytics*
- Automated Monitoring & Alerts
- Multi-Tenant & Role-Based Administration
- Map View
- AI Diagnostics
- Supports 500+ Concurrent Wi-Fi Client Devices
- Lan2 PoE Pass-Through

Intuitive Dashboard Interface

The DLA-X182 is a versatile in-wall access point with features aimed at simplifying network infrastructure, especially in environments requiring both wired and wireless connectivity. Its inclusion of four gigabit Ethernet ports provides flexibility for wired devices, while the PoE passthrough on LAN2 is especially useful for IP phones or cameras, eliminating the need for separate power sources for these devices. The uplink gigabit port with PoE/PoE+ support allows the device to be powered through the network cable, streamlining installation further.

Solution Benefits

1. Easy-to-Configure APs and Switches

Users no longer have to configure each access point individually, D-lite Cloud offers an intuitive cloud interface to mass or individually configure your access points, ideal for lean IT businesses. Settings are saved on the cloud and pushed to the devices The D-Lite cloud-managed switch enables lean IT to easily provision, manage and even troubleshoot their entire network. Port configurations can be easily configured individually or performed in a batch.

2. Easy & Rapid AP & Switch Deployment

After pre-configuring the AP or Switch towards a certain profile, the AP & Switch can then be quickly deployed remotely and be up and running without configuration at the target site.

3. Unlimited Scalability

With D-Lite Cloud, the controller is managed in the cloud from a single centralized interface and no longer faces hardware scalability limitations commonly found in traditional on-premise controllers. D-Lite Cloud supports unlimited access points and switches, ideal for small to medium-sized businesses.

4. Management Multi-Site Management

From the centralized interface, IT professionals and System Integrators can manage multi remote sites with features including creating accounts, generating reports*, and remotely installing, managing and monitoring the wireless and wired infrastructure for multiple users – all with minimal commitment in terms of training time, IT resources and capital.

D-Lite APP

5. Management Intuitive Dashboard

An Intuitive and Comprehensive Dashboard to Configure and Monitor your Network
- Online and Offline Devices
- Number of Clients
- Radio Utilization View
- Client Traffic and Analysis view
- Device Traffic and Analysis view
- CPU & Memory Usage
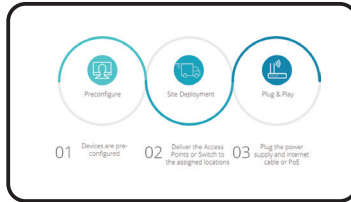- Alert Notifications

6. D-Lite APP for Easy Deployment and Monitoring

D-Lite Cloud offers APP to configure and monitor your network on the go.
- Quick Setup via QR Code
- Real-Time Monitoring
- Comprehensive Configurations

Easy-to-Configure APs and Switches | Easy & Rapid AP & Switch Deployment | Unlimited Scalability Management Multi-Site Management | Management Intuitive Dashboard

802.11ax Wi-Fi 6
- Wi-Fi 6 AP provides high performance connectivity
- Up to 3 Gbps combined throughput2
- Increased client device battery life
- Faster speeds on both 2.4 GHz and 5 GHz bands
- Optimized encoding, packing more data
  into the same radio waves

Power over Ethernet (PoE)
- Supports IEEE 802.3at PoE
- Convenience of using one cord for both power and
  Internet access
- Reduces installation and energy expenses
- Flexibility to install the DLA-X182 in places that don't have access
  to electrical infastructure, such as the ceiling

### Best-in-class Built for Enterprise AP
- Powerful management, monitoring and troubleshooting
  functionality with D-Lite Cloud
- MU-MIMO
- IEEE 802.3az Energy-Efficient Ethernet (EEE)
- Integrated Self Cluster Mode
- Remote access via cloud
- Allows for a high number of concurrent users

Enterprise Security
- 192-bit Enterprise and 128-bit Personal encryption
- SSID/Guest/Station Isolation
- IP/MAC address filtering
- Captive Portal (Google, E-mail auth, Self reg.)
- Supports RADIUS client and Cipher negotiation
- Supports External Captive Portal and walled garden

Quick and Easy Installation

With its user-friendly installation design, DLA-X182 can be set up
without the need for specialized technical assistance.
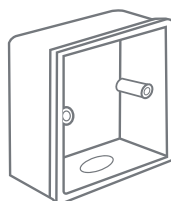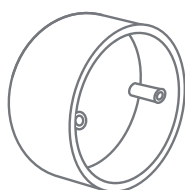
Compatible with two types of wall junctions
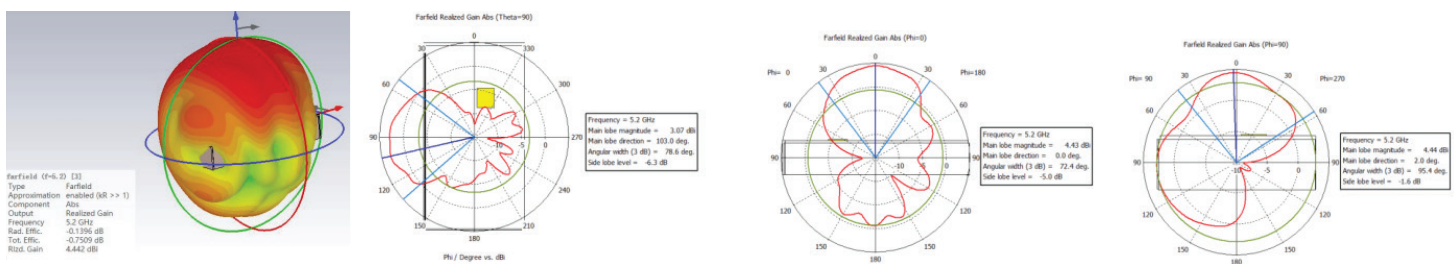
Technical Specifications

Hardware Parameters	
Chipset	IPQ5018+QCN6102+QCA8337
CPU frequency	Quad-Core 1GHz
Memory	DDR3L 256MB
Flash	128MB Nand Flash
Wi-Fi	2T2R 2.4GHz 802.11b/g/n/ac/ax, 573.5Mbps, 2T2R 5GHz 802.11a/n/ac/ax, 2402Mbps
Device Interfaces	1 x RJ45 1Gbps LAN Ethernet PoE in, 4x RJ45 1Gbps LAN Ethernet Ports (LAN 2 PoE out)
Wi-Fi Antenna	2 x 3dBi internal 2.4GHz antennas, 2 x 2dBi internal 5GHz antennas

Wi-Fi Features	
Standard	802.11a/b/g/n/ac/ax 802.11b/g/n/ax, frequency 2.400 GHz to 2.4835 GHz 802.11a/n/ac/ax, frequency 5.150 GHz to 5.350 GHz & 5.470 GHz to 5.725 GHz & 5.725 GHz to 5.850 GHz country-specific restrictions apply
Modulation Schemes	OFDM - BPSK,QPSK, 16-QAM, 64-QAM 256-QAM 1024-QAM DSSS - DBPSK, DQPSK, CCK
Max Transmit Power	2.4GHz: 11n max 20dbm (17dbm per chain) 11ac max 20dbm (17dbm per chain) 11ax max 20dbm (17dbm per chain) 5GHz: 11n max 20dbm (17dbm per chain) 11ac max 20dbm (17dbm per chain) 11ax max 20dbm (17dbm per chain)
RX Sensitivity	2.4GHz: 11n max - 71dbm 11ac max - 63dbm 11ax max - 59dbm 5GHz: 11n max - 71dbm 11ax max - 56dbm(HE80) 11ac max - 61dbm 11ax max - 53dbm(HE160)
Transfer Rate	2.4G: HE20: up to 286.8Mbps HE40: up to 576.5Mbps 5G: HE20: up to 286.8Mbps HE80: up to 1201Mbps HE40: up to 576.5Mbps HE160: up to 2402Mbps

Antenna Pattern

2.4GHz Antenna Pattern
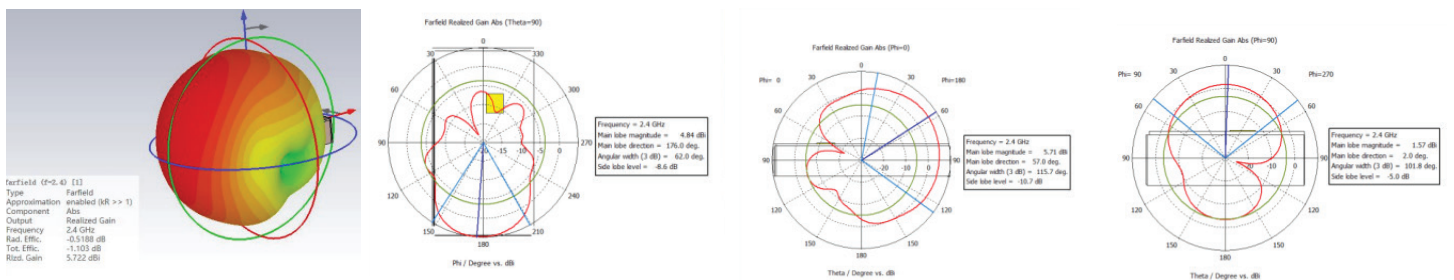
5GHz Antenna Pattern

Technical Specifications

General Software Features

Management Features:
- WEB GUI
- Command Tool Telnet For Debug
- APP
- SSH
- HTTP/HTTPS
- Login Authentication
- NTP
- Settings Backup & Import & Recovery
- Firmware Local/Remote Upgrade
- System Reboot & Scheduled-Restart
- Network Self-Checking
- Fault Alarm
- Fault Collection
- Diagnostic Tools(ping/tracert/nslookup)

Wireless Spec Features:
- Roaming
- AP Mesh
- Power Percent Adjustment
- Removing Low-RSSI STAs
- WIFI Optimization
- Beamforming
- Auto Channel
- 160MHz Huge Frequency Width
- WEP/WPA/WPA2/WPA3 Security
- Guest SSIDs
- Separate Authentication for SSID
- Schedule Working for SSID
- Speed Limit for SSID
- Hidden SSID
- User Isolation for SSID

Network Main Protocols:
- RFC0768 UDP
- RFC0791 IP
- RFC0792 ICMP
- RFC0793 TCP
- RFC0826 Ethernet ARP
- RFC0894 IP over Ethernet
- RFC0922 Broadcasting Internet Datagrams
- RFC0950 Internet Standard Subnetting Procedure
- RFC2516 PPP Over Ethernet (PPPoE)
- RFC1332 PPP Internet Protocol Control Protocol
- RFC1042 Transmission of IP Datagrams over IEEE 802 Networks

Other Spec Features:
- Kick Off for Wireless User
- Block Internet for User
- Internet Time Schedule for User
- Speed Limit for User
- User Firewall MAC/IP/Port/ URL filter for Data-Stream
- Night Mode(Light Control)
- Roaming Test
- Manual DNS

Wireless Main Protocols:
- IEEE 802.11a
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n
- IEEE 802.11ac
- IEEE 802.11ax
- IEEE 802.11h(DFS)
- IEEE 802.11e(WMM)
- IEEE 802.11k/v/r

Network Spec Feature:
- IPv4/IPv6 dual stack
- Static/IPoE/PPPoE Connection Type
- IPv6 Stateless/Stateful
- Bridge Mode

Physical

Operating Temperature	: -0°C~40°C	Dimensions	: 165 x 90 x 27mm
Storage Temperature	: -30°C ~ 70°C	Weight	: 320 g
Operating Humidity	: 5%~95% (typical)	Mean Time Between Failure (MTBF)	: >350000 hours
Power Consumption	: up to 11.01W Idle Power:4.35W	Mounting Options	: Wall Plate Mounting
Power Supply	: 12 V DC/1.5 A power input over DC connector : IEEE 802.3af /at PoE		

EMC Safety

Regulation Compliance	CE
Safety Regulations	UL
Green Standard	RoHS

Order Information

Part Number	Description
DLA-X182	D-Lite Cloud-Managed AX3000 Faceplate Access Point (with PoE out)