



Highlights

- High-Efficiency WiFi 6
- 2x2:2 MU-MIMO 802.11ax compatible
- ~3Gbps Peak data rates
- Dual-band concurrent operation in 2.4 & 5 GHz bands
- 2 x 2.5 Gbps mGig Ethernet port support
- ~26 dBm TX Power
- Integrated enterprise security and guest access
- Self-configuring, plug-and-play deployment
- Cloud-managed with udaya cloud
- Network Management
- User Management
- Captive Portal & Mobile App
- Visitor Analytical Reports
- OpenWiFi Supported

udaya Wi-Fi 6 wireless access points are the ultimate solution for organizations seeking highly mobile and productive work environments while minimizing the total cost of ownership. With exceptional value across a wide range of scenarios, udaya Wi-Fi 6 access points deliver reliability, security, and ease of deployment, making them the go-to choice for businesses of all sizes.

The A6-ODM2-31641 is an industrial-grade 802.11ax Wi-Fi 6 access point designed specifically for high-density environments. It enables businesses to build next-generation networks, offering higher network speeds, increased device connectivity, and superior packet quality. With dual-band 2x2:2 MU-MIMO technology and a sophisticated antenna design, the A6-ODM2-31641 ensures maximum network throughput and expanded Wi-Fi coverage range.

With support for advanced QoS, low latency real-time applications, captive portals, 100+ concurrent clients per AP, and dual Gigabit network ports with PoE, A6-ODM2-31641 is an ideal Wi-Fi access point for wireless network deployments with medium-to-high user density in harsh outdoor locations and industrial indoor conditions.

CENTRALIZED CLOUD MANAGEMENT

udaya cloud platform gives organizations a unified IT experience for network monitoring and management while eliminating the cost and complexity of traditional on-site wireless controllers. The A6-ODM2-31641 access point is managed through the udaya cloud controller, with an intuitive browser-based interface that enables rapid deployment without time-consuming deployment complexity and time-consuming staging process. The udaya dashboard provides an intuitive and interactive web interface. udaya dashboard provides sophisticated and scalable tools to automate network optimization and deploy policy, and segmentation configurations across thousands of sites and devices.

Since the A6-ODM2-31641 is self-configuring and managed over the web, it can be deployed at a remote location in minutes, even without on-site IT staff.

udaya provides 24x7 monitoring and remote diagnostic to enable immediate troubleshooting over the web so that distributed networks can be managed with minimal hassle. The A6-ODM2-31641's firmware is automatically kept up to date via the cloud. New features, bug fixes, and enhancements are delivered seamlessly over the web. This means no manual software updates to download or missing security patches to worry about.

Form Factor

Packaging	Metal Outdoor; Pole Mounting
Type	Dual radio (2.4GHz and 5GHz) with support for AP mode & Mesh mode

Interfaces & Management

Interface	2 x 10/100/1000 BASE-T, RJ-45 Ethernet Port
Operating System	Invent OS

Antenna

Radios	2.400-2.4835GHz 5.1-5.9GHz 2*2.2 MU-MIMO (Chains/Spatial Stream)
Frequency	2.4GHz: 2400 MHz ~ 2482 MHz 5GHz : 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725MHz ~ 5850MHz
Standard	2.4GHz: IEEE 802.11b/g/n/ax 5GHz : IEEE802.11a/n/ac/ax
Antenna	Inbuilt 9/12 dBi omnidirectional antennas
Transmit Power	26 dBm; 2.4 GHz & 5 GHz.
Channelization	802.11ac - VHT 20/40/80/160 MHz 802.11n - HT 20/40 MHz 802.11n VHT (256-QAM) 802.11n/ac packet aggregation - AMPDU, ASPDU
Data Rates	600 Mbps on 2.4 GHz, 2400 Mbps on 5 GHz

Power

PoE	802.3af/at or Proprietary 48V, IEEE 802.11e Compliant
Power Consumption	20 W (Max) with surge protection of 2 KV

Dimensions & Environment

Type	Indoor
W x L x H / Weight	250 x 250 x 72 mm / 1 Kg (Approx.)
Operating Temp	-20 to 60°C
Storage Temp	-40 to 85°C
Humidity	Up to 90% (non-condensing)
Protection	IP-68
Compliance	IEEE 802.11a/b/g/n/ax

Ordering

Appliance / Chassis	A6-ODM2-31641
udaya™ License Mandatory per AP	udy-w5sub-01

udaya Standard Features

Software Security	<ul style="list-style-type: none"> • AAA - udaya RADIUS • Flexible guest access with device isolation • WPA2 AES-PSK/WPA2 Enterprise • Hide SSID in Beacons • MAC Address Filtering, Up to 32 MACs per SSID • Wireless STA (Client) Connected List • HTTPs, SSH and Client Isolation
Quality of Service	<ul style="list-style-type: none"> • Management Interfaces- udaya Cloud, Web Interface • Hotspot (captive portal) with uniform QoS per user • Tools for diagnostics - ping, traceroute, arp, nslookup • Compliant with IEEE 802.11e Standard
User Management	<ul style="list-style-type: none"> • Packets transmitted and received • RSSI (Received signal strength indication) • Volume of uploaded and downloaded data • Upload and download bandwidth • Remote management via HTTP, HTTPs, Secure SSH, Telnet, SSL, SNMP management v1/v2c/v3, MIB/II, Private MIB
Device/Network Management	<ul style="list-style-type: none"> • Completely cloud managed • Public IP address, LAN IP address, DNS servers, Gateway • Current channel of both the radios • Memory total and free • Firmware version, AP model, serial number • LAN and WAN throughput • IPv4 and IPv6 dual stack support • Configuration file backup and restore by TFTP or FTP, HTML • Rich system information –AP status, station status, event logs • Supports 802.1d Spanning Tree Protocol
SSID	<ul style="list-style-type: none"> • 16 (For both 2.4GHz & 5GHz radios) • Supports 802.1q SSID-to-VLAN Tagging • Cross-band VLAN Pass Through Management VLAN
Coverage	200 Meters
Clients	100-200 Users per AP
Warranty†	
Software	Refer EULA
Hardware	Standard 90 days, return to India factory

† Performance may vary based on hardware & network conditions. Concurrency of apps/features may affect performance. Figures provided are estimates not guarantees.

† Warranty terms shall be superseded by those shipped with product(s)
* Specifications/inclusions are indicative; Subject to change without notice.