

ALPHA MAX C-DOT

WI-FI 6 ACCESS POINT



INDOOR MODEL



OUTDOOR MODEL

PRODUCT DETAILS:

Wi-Fi 6 or IEEE 802.11ax is the best in class and latest standard for Wi-Fi technology. The standard is focused on improving Wi-Fi performance in dense and crowded environments and can provide 4X (four times) increase in the data throughput and supports very low latency AR/VR Scenarios.

Wi-Fi 6 technology is suitable to provide efficient access network to meet 5G indoor hotspot use cases and dense urban requirements unlicensed band spectrum in 2.4GHz and 5GHz. Alpha Max C-DOT Wi-Fi 6 Access Point is indigenously designed and developed product in India, suitable for both Indoor/ Outdoor and Urban/ Rural requirements such as Schools, Enterprise, Office, Smart City, Malls, Railway Stations, Airports, Stadiums, Industry 4.0 and rural areas alike.

Alpha Max C-DOT Wi-Fi 6 Access Point is suitable for Point to Point and Multipoint configurations in rural areas and hotspot configuration in dense urban areas.

TECHNICAL SPECIFICATIONS:

PARAMETER	VALUES/ DESCRIPTION
Standard	IEEE 802.11 a/b/g/n/ac/ax
Compliance	PM WANI Compliant
VLAN/ QoS/ Encryption/ Authentication/ Standard	802.1Q VLAN/ 802.11e/WMM/802.1x/802.11i/802.11s/WDS
Mode	Bridge, Router
Operating Frequency	As per NFAP 2018
Radios	3 Wi-Fi Radios (2 Radios on the board and 1 Radio is PCIe module) Dual Band (2.4GHz and 5GHz) concurrent operation
Enclosure	1. Plastic Enclosure for Indoor Unit 2. Metal Enclosure for Indoor Unit 3. IP67 Outdoor Unit
Coverage	Outdoor: 100M Indoor: 20M
Channel Width	20/40/80/160/80+80MHz
MIMO	4x4 till 80MHz channel bandwidth 2x2 for 160MHz and 80+80MHz channel bandwidth
Data Rate	2400Mbps in 5GHz Radio 1200Mbps in 2.4GHz Radio

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PARAMETER	VALUES/ DESCRIPTION
Clients	256
BSSID	16
Service Supported	Voice, Video and Data
Features Supported	DL and UL-MU MIMO, DL-OFDMA, UL-OFDMA, BSS colour
Operating Power	Max : 24W Input Voltage Range: 10V to 60V DC
Power Source	PoE (802.3 bt)
WAN Port	1x 2.5G Ethernet, auto-sensing 1x 2.5G Optical SFP+ (Optional)
LAN Port	4 x 1G Ethernet , auto sensing
Audio Indication	Yes (power up, booting ready, Internet connectivity, WAN port up)
Visual Indication	Available in Indoor unit 11 LEDs (Power, LAN ports, WAN ports :Ethernet and Optical, Wi-Fi Status)
Deployment Scenario	Outdoor Hotspot, Indoor Hotspot, P2P, Point to Multipoint, MESH, WDS
Max Tx Power	30dBm
Housing/Mounting	IP67, Pole mount, Lightning and Over voltage Protection withstand high speed winds/thunderstorms
Operating Condition	Temp: -20°C to +55°C Humidity: 10 to 95% non-condensing
Management	TIP Controller, C-DOT EMS, Data and syslog capture for audit and analysis
Roaming Features	IEEE 802.11 r
Remote upgrade	Yes
GUI	Yes
Authentication Support	RADIUS potocol supported for external AAA server
Encryption Support	TKIP (WPA), AES-CCMP (WPA2), WPA3
MESH	Wi-Fi SON (AP Steering, Band Steering) and Easy MESH
RF Management	DFS, Dynamic Channel Selection or Interference Mitigation (DCS-IM), BSS colour, Air Time Fairness (ATF)
Antenna	Indoor: 3dBi Omni Outdoor: Internal Omni
Antenna Connector Type (Optional)	Plastic Indoor Unit: Fixed 3dBi Antenna with UFL connector Outdoor Unit: N (F)
Antenna Type Supported (Optional)	Patch Panel, Omni, Sector, Grid