

#### Altai VX200 Dual-Band CPE/AP

The Altai VX200 is an industrial CPE/AP specifically designed to deliver unparalleled Wi-Fi experience and highly reliable connectivity at the market's most affordable price point.

The VX200 offers several powerful features to meet the challenges of today's industrial Wi-Fi networks:

- Together with the A8n (ac) or the A3-Ei, VX200 delivers over ten times the coverage of any conventional Wi-Fi solution
- Altai's Fast Roaming technology allows VX200 to roam seamlessly between APs, with millisecondlevel handover time
- Support industrial communications standards such as PROFINET
- Advanced Interference Mitigation Suite offers significant reduction in interference in harsh and noisy industrial environments
- Due to the wide operating temperature range and a robust design with enhanced surge, ESD, and vibration protection, VX200 can be used in harshest conditions with the highest reliability

# **Super Dual-band Coverage**

Max. LOS AP Access with	350 m (2.4 GHz)	
5dBi Omni	250 m (5 GHz)	
Max. LOS CPE with 5dBi	2 km to A8-Ein (ac)	
Omni	1.5 km to A3-Ei	
Max. Data Rate	300 + 867 Mbps	



# **Applications**

- The VX200, with fast roaming technology, enhanced vibration protection and compact design, is ideally suited for installation on AGV or AS/RS platform in factories, logistics centers, and warehouses
- Due to its superior coverage and flexible deployment options, the VX200 is the most affordable high-performance CPE in the market for real-time device monitoring, remote management, and data collection in a wide range of industrial environments
- With support for industrial standards such as PROFINET, the A8n (ac) Super WiFi Base Station/ A3-Ei AP and VX200 offers the most cost-effective solution for factory automation, enabling automate production across all levels

## **Key Features and Benefits**

- Dual-Band Concurrent Operating in both 2.4 GHz and 5 GHz bands, the VX200 is backwardcompatible with existing 802.11a/b/g/n/ac deployments
- Wave 2 MU-MIMO MU-MIMO significantly improves multi-client capacity, and dual radios deliver data rates up to 867 Mbps at 5 GHz and 400 Mbps at 2.4 GHz
- Fast Roaming Technology Allows the VX200 to roam seamlessly between APs, with handover time of < 120 ms under WPA2
- Redundant Link VX200's dual radios can connect to two APs simultaneously, with one as an active link and the other as backup, ensuring a highly reliable wireless connection

- Compact Size The VX200's size is 120x85x32mm; making it one of the smallest Industrial CPEs in the market
- Anti-Vibration Enhanced vibration and shock protection (IEC60068-2-6 and IEC60068-2-27 standards) makes the VX200 ideally suited for installation on AGV/AS/RS platforms
- Industrial Ruggedness Integrated power isolation and enhanced surge and ESD protection against environmental interference
- **Graphene Coating** Industrial-grade housing with Advanced Graphene Coating helps VX200 dissipate heat even in confined space.
- Flexible Deployment Options Supported by multiple management platforms: standalone, controller, or cloud-based / on-premises by AltaiCare

# Altai VX200 Dual-Band CPE/AP

Seamless Roaming with Compact Size



#### Wireless Interfaces

802.11b	/g/n	(2x2:2)	) Radio
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 Operating Mode AP/CPE/Repeater • Standard IEEE 802.11b/g/n Operating Frequency 2.400 - 2.484 GHz (Ch 1-13) Transmit Power 25 dBm (Max.) Receiver Sensitivity (Typical)

1 Mbps 802.11b -90 dBm 11 Mbps -90 dBm 802.11g 6 Mbps -86 dBm -73 dBm 54 Mbps 802.11n HT20 -86 dBm HT40 -83 dBm

#### 802.11a/n/ac (2x2:2) Radio

 Operating Mode AP/CPE/Bridge/Repeater Standard IEEE 802.11a/n/ac MU-MIMO Up to 2 Streams

 Operating Frequency 5.150 - 5.350 GHz 5.470 - 5.725 GHz 5.725 - 5.850 GHz Transmit Power 25 dBm (Max.)

Receiver Sensitivity (Typical)

802.11a 6 Mbps -88 dBm 54 Mbps -73 dBm 802.11n/ac HT20 -88 dBm HT40 -85 dBm -88 dBm VHT20 VHT40 -85 dBm VHT80 -83 dBm

#### For both 2.4 and 5 GHz

- 32 SSID (16 SSID per Radio)
- WMM, 802.11h, 802.11k, 802.11r, 802.11v, 802.11w
- Passpoint (Release 2)
- Fast Roaming
- Band Steering/Multi-AP Steering\*
- Smart Load Balancing
- Dual-Radio 1+ 1 Redundancy\*
- Smart Mesh Networking\*
- Auto Channel Selection and TX Power Control
- Bandwidth Control Per SSID/Client
- Altai AirFi™ Throughput Optimization

#### **Antennas**

2 x RP-SMA Female Antenna Connector

## **Networking**

- Switch (Bridge) and Gateway Mode
- IPv4/IPv6 Dual-Stack
- NAT
- DHCP Client/Server
- PPPoE Client
- Soft-GRE
- VIAN
- Multicast Rate Filter/IGMP Snooping

## Security

- Authentication Open, Shared key, WPA/WPA-PSK, WPA2/ WPA2-PSK, WPA3\*, 802.1x (EAP-PEAP/TLS/TTLS/SIM/AKA)
- Encryption WEP, TKIP, AES
- Inter/Intra-SSID Client Isolation
- MAC-based Access Control (White/Black List)
- RADIUS/Active directory
- Dynamic VLAN Assignment

- Firewall
- WIDS/WIPS
- Broadcast/Multicast/Unicast Flooding Control

## Management

- Management Platforms: AltaiGate, AltaiCare, AtlaiCare **Appliance**
- Web User Interface
- Command Line Interface (SSH)
- Remote Factory Reset
- Trusted Management IP List
- SNMP v1/v2c/v3
- MIB2/IF-MIB/Altai Enterprise MIB
- Syslog
- Spectral Analysis\*
- KPI Monitoring\*
- Client OS and Hostname Detection

## **Physical Specifications**

 Dimension 120 mm x 85 mm x 32 mm

 Weight  $0.2 \, \text{kg}$ 

 Mounting DIN-Rail Mount, Wall Mount 1 x 10/100 /1000 Mbps Ethernet Network Interface

Port DB9 Male Serial Interface Serial Standard RS-232

#### **Power Supply**

 Power Supply DC Input (12 to 48 VDC) 802.3af/at PoE PD

 Power Consumption 8 W (Typical)/12 W (Max.)

# **Environmental Specifications**

• Operating Temperature -20 °C to +60 °C • Storage Temperature -40 °C to +75 °C

Humidity Corrosion/Thermal Protection

**Advanced Graphene Coating** • Surge Protection EN 61000-4-5: ±4kV CM, ±2kV DM

Up to 95% (Non-Condensing)

(10/700us)

• Vibration Protection IEC60028-2-6/IEC60068-2-27

IP 30 IP Ratina

#### Certifications

- FCC/CE/Others\*
- RoHS Compliance

# **Product Ordering Information**

## VX200 (Part No.: SD.VX200-2231-002)

- VX200 Dual-Band 2x2 802.11ac Wave 2 CPE/AP
- Wall Mounting Kit
- DIN-Rail Mounting Kit
- 2 x Dual-Band 3 dBi Omni Antennas

# **Optional Accessories**

Dual-Band 5 dBi Omni Antennas

## **Contact Us**

- Ph: 1300 539 212
- Email: solutions@idatanet.com.au
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VX200-PB-200326

<sup>\*</sup>Will be available in the future.

The coverage range will vary depending on NLOS and interference conditions

The transmit power may vary according to country regulation