



K20 Indoor Access Point (Wave 2)

Product Overview

The K20 is a next generation enterprise class, indoor dual radio Access Point with 4x4 MU-MIMO technology. It supports dual band 2.4+5G and 802.11n+11ac wave 2 radio links. The K20 can deliver maximum speeds of up to 4.0Gbps, offering ultra-high throughput and reliable coverage required by the most demanding business applications.

The K20 features 2.5G NBASE-T Ethernet interfaces and operates from standard 802.3at power-over-Ethernet (PoE) sources. This Access Point is suitable for high-density campus and hotel environments that require premium performance.

Cloud Service Wi-Fi

- Cloud Managed Wi-Fi with 24x7 proactive network monitoring
- Simple provisioning & knob less configuration of wireless network
- Set up in minutes
- Monitoring & optimization of critical network services (RF, DHCP, DNS, RADIUS, Users, Devices, Internet)
- Insightful network operations & support dashboards
- KodaCloud App for remotely monitoring Wi-Fi network via iOS & Android based Smartphones
- Patent pending, Artificial Intelligence based diagnosis, troubleshooting, automatic correction and proactive optimization of Wi-Fi network
- Customer notification of issues resolved or prevented, and alerts to initiate critical action
- Integrated Account Management & E-Commerce with Technical Support for ease of business operations
- 8x5xNBD HW replacement
- Support helpdesk for L3/L4 technical escalations to ensure your users receive an Always-On experience



Technical Details

Access Point

Radio:

- Indoor, dual radio, 5 GHz 802.11ac 4x4 MIMO and 2.4 GHz 802.11n 4x4 MIMO
- Proprietary extensions to 2.4 GHz that supports 802.11ac in addition to 802.11n
- Support for 180Mhz channel
- Radio 1: 2.4G 11b/g/n/ac
- Radio 2: 5G 11a/n/ac
- Radio 3: Dual band a/b/g/n/ac
- Radio 4: BLE 4.0/Zigbee dual mode

5GHz RF Specifications:

- Four spatial stream Single User (SU) MIMO
- Speeds up to 1,733 Mbps (individual 4x4 VHT80 or 2x2 VHT160 client devices)
- Four spatial stream Multi User (MU) MIMO
- Speeds up to 1,733 Mbps (three MU-MIMO capable client devices simultaneously)

2.4 GHz RF Specifications:

- Four spatial stream Single User (SU) MIMO
- Speeds up to 800 Mbps (individual 4x4 VHT40 client devices)
- 600 Mbps (HT40 802.11n client devices)
- Supports up to 200 concurrent clients
- Supports up to 14 BSSID's per radio

Power (maximum transmit):

- 2.4 GHz band: +24 dBm (18 dBm per chain)
- 5 GHz band: +24 dBm (18 dBm per chain)

Interfaces:

- Two GigE ports (one with PoE)
- Integrated Bluetooth/BLE4.0/Zigbee
- 2.5Gbps on one Eth port

Operating Temperature:

- 0° C to +50° C (+32° F to +122° F)

Humidity:

- 5% to 93% non-condensing

Storage & Transportation Temp:

- -40° C to +70° C (-40° F to +158° F)

Power:

- PoE, IEEE 802.3at compliant, DC IN

Antenna Specifications:

- K20: Internal Modular High Efficiency PIFA antenna
- IAP8351AG: External antenna

Environmental Specifications:

Power consumption: 12W max. w/o PSE output
 Temperature Range: Operating 0° C-40° C (32° F to 104° F)
 Storage: -20° C to 70° C (-4° F to 158° F)
 Humidity (non-condensing): 0%-95% typical, elevation 50,000 ft

Dimensions:

- L x W x H: 210 x 210 x 35mm
- Weight -700g

- Wall and Ceiling Mount locking mechanism

Software Specifications

TBD



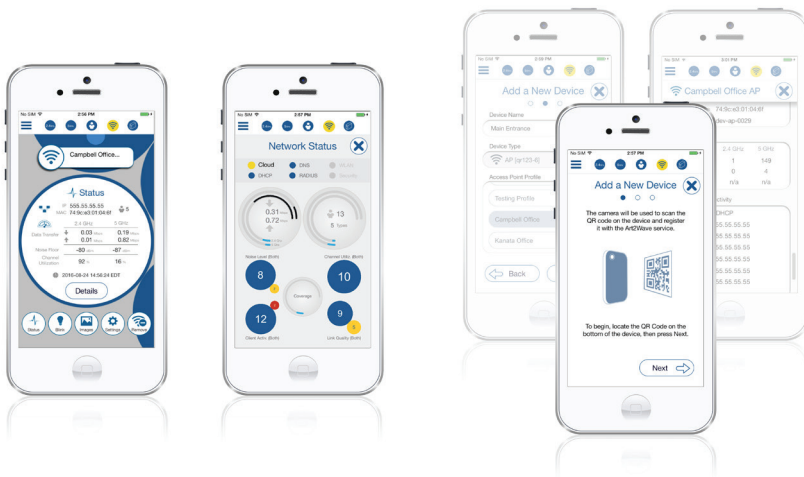
Artificial Intelligence, Enterprise Cloud Service Wi-Fi

Wi-Fi reliability, scalability and serviceability are top of mind for IT managers tasked with ensuring high performance access to their end customers. Options available today range from traditional Controller-based to Cloud Managed Wi-Fi solutions. Each option however, involves significant upfront capital cost, often with expensive annual maintenance and optimization contracts. Unfortunately, these solutions are not designed for cost effective, end-to-end network operations.

Do-it-yourself configuration widgets are useful in assisting IT staff set up basic features. However, ongoing operations and Wi-Fi optimization requires deep technical know-how. For example, determining number of APs needed, or how and where to place APs, ensuring client interoperability with the infrastructure, upgrades and optimizing RF environment (MIMO, etc.) can be a significant operational burden for IT. It involves innumerable hours of self-service, or phone and email exchanges with vendor support teams. Such activities consume days, if not weeks of IT productivity and increase operational costs.

KodaCloud is changing the fundamental Wi-Fi experience for businesses. We integrate Cloud Managed Wi-Fi with Proactive Network Operations in an end-to-end architecture focused on quality of user experience. We operate a 24x7 NOC staffed by KodaCloud Wi-Fi experts to offer a best of breed managed service. We use Machine Intelligence to automate time consuming Wi-Fi optimization and fine tuning tasks, giving valuable time back to IT. Our predictive analytics technology leverages the power of cloud computing & big data to optimize your network for highest performance in real-time, while helping reduce your operational costs and keeping you agile. As IT, you're only required to specify the services and interfaces you want to enable on our AP, or the security policies you want implemented via our Cloud service. We do everything else.

With KodaCloud's patent pending Artificial Intelligence driven Cloud Service Wi-Fi, you will experience unprecedented performance, reliability, security and scalability across all locations - peace of mind, without the hassles of day-to-day Wi-Fi network operations management.



Contact Sales, sales@KodaCloud.com for more details or to start a free trial.



DATA SHEET

Key Features

SIMPLE, AFFORDABLE, SECURE

- Hassle free setup, deploy in minutes
- No topology changes required
- Overlay an existing Wireless LAN
- BYOD ready, Enterprise level security

ALWAYS-ON CONNECTIVITY

- Track APs, Users, Devices & Traffic across sites
- Easy access with iOS and Android Mobile App
- Single pane of glass visibility and action

PROACTIVE WI-FI HEALING

- No fine tuning RF knobs or advanced settings
- No RF troubleshooting expertise required
- Automated diagnosis & troubleshooting of Wi-Fi network
- Issues resolved with "human-like" decision making capability

MACHINE INTELLIGENT OPTIMIZATION

- Fine tuning key RF and network parameters
- Learns your environment, optimizes performance in real-time
- High availability cloud service; big-data architecture
- No data stored in KodaCloud cloud

Business Benefits

- Lower Wireless LAN related OPEX
- 24x7 NOC frees up IT and Ops teams
- No upfront cost or complexity
- Pay as you grow annual subscription
- Easy technology refreshes, receive free replacement AP's every 4 years
- Focus IT on strategic projects, deploy apps faster, gain productivity

Use Cases

- Ideal for hotels, hospitality and offices of any size and across multiple locations
- Ideal for high bandwidth video, mobile workforce and business critical apps
- Eliminates Wi-Fi connectivity, performance and roaming issues
- Secures business with end-to-end control of service parameters