KENSTEL

KAP130
Dual Band Outdoor Access Point

MAKE IN INDIA

Kenstel KAP-130 is a two-radio, cloud-managed 2×2 MIMO 802.11ac Wave 2 access point. Designed for general purpose, next-generation deployments in outdoor locations and industrial indoor conditions, the KAP130 offers performance, enterprise-grade security, and intuitive management.

The KAP-130 delivers a maximum 1.3 Gbps aggregate frame rate with concurrent 2.4 GHz and 5 GHz radios. KAP130 delivers the high throughput, reliability, and flexibility required by the most   demanding business applications like voice and high-definition streaming video, even in the harshest outdoor   environments

Dual-band 2×2 MIMO 802.11ac Wave 2 access point with cloud management

Education
Experience Life in High Speed.

Hospitality
Enabling Seamless Connectivity for Every Guest Experience

Office
Keeping Your Office Connected and Efficient

KAP130

PRODUCT HIGHLIGHTS

- IP67 design for use in outdoor environments

- Aggregate data rate of 1.3 Gbps

- Self-configuring, Self-healing mesh

- Inbuilt high gain Omni directional Antennas

- Remote management via HTTP, HTTPs, Secure SSH, Telnet, SSL, SNMP management v1/v2c/v3

- Configuration file backup and restore by TFTP or FTP, HTML

- Rich system information –AP status, station status, event logs

- IPv4 and IPv6 dual stack support

- IEEE 802.11a/b/g/n/ac compliant

- 2.4GHz and 5GHz concurrent radios

TECHNICAL SPECIFICATION

Wi-Fi Standards
- IEEE 802.11b/g/n on 2.4GHz
- IEEE802.11a/n/ac on 5GHz

Processor
- Qualcomm® 717 MHz Quad-Core CPU
- ARM Cortex A7

Antenna
- Inbuilt 5/7 dBi Dual-Concurrent Omni-Directional Antennas

Physical Interface
- 2× 10/100/1000 BASE-T
- RJ-45 Ethernet Port

LED Indicators
- 1 x Power│ 2 x LAN │ 1 × 2.4 GHz/ 5 GHz

Power Source
- Power-over-Ethernet: 802.3af/at or Proprietary 48V │IEEE 802.11e Compliant Source│
- Active Ethernet (PoE)

Maximum Power Consumption
- 20W

Surge Protection
- 2KV

TECHNICAL SPECIFICATION

Operating Frequency

- Dual-Radio Concurrent 2.4GHz & 5 GHz

Operation Modes

- AP, Mesh

Frequency Radio

- 2.4GHz: 2400 MHz ~ 2482 MHz
- 5GHz: 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz, 5470 MHz ~ 5725 MHz, 5725MHz ~ 5850MHz

Transmit Power

- 2.4 GHz: 26 dBm │ 5 GHz: 26 dBm

Radio Chains/Spatial Stream

- 2×2:2

Supported Data Rates (Mbps):

- 2.4 GHz: Max 400 │ 5 GHz: Max 867

Supported Radio Technologies

- 802.11b: Direct-Sequence Spread Spectrum (DSSS)
- 802.11a/g/n/ac: Orthogonal Frequency-Division Multiplexing (OFDM)
- 802.11n/ac: 2×2 MIMO with 2 Streams

Channelization

- 802.11ac supports very high throughput (VHT)—VHT 20/40/80 MHz
- 802.11n supports high throughput (HT)—HT 20/40 MHz
- 802.11n supports very high throughput (VHT) under the 2.4 GHz radio—VHT (256 -QAM)
- 802.11n/ac packet aggregation: AMPDU, ASPDU

SOFTWARE SPECIFICATION

IP
- IPv4, IPv6, dual stack

Max Concurrent User
- Upto 256

Max SSID
- Upto 16

Wireless authentication
- WEP, WPA, WPA2-PSK, WPA3 - Personal, WPA3 – Enterprise, WPA3 - Enhanced Open (OWE)
- EAP-TLS, EAP-TTLS, EAP-MSCHAPv2, EAP-SIM
- IEEE 802.1X based Authentications
- HOTSPOT 2.0

Roaming
- Fast roaming based on802.11r/k
- Seamless Roaming for Captive Portal user

RRM
- Automatic interference cancellation
- Smart Frequency selection
- Automatic Transmit power Optimization
- Coverage hole detection and mitigation

External Authentication
- Authentication via Radius
- Authentication via Active Directory (AD)

Captive Portal
- Click Through
- Simple Password
- Voucher
- Local User
- SMS OTP
- Custom Survey
- Social Media
- Advertisement

Operating Modes
- Bridge Mode
- Gateway Mode

Tunnels
- L2TP V2/V3
- GRE/EoGRE
- Openvpn
- IPSEC
- PPTP
- Wireguard/SSL

Routing
- Static routes
- RIP v1/v2
- OSPF
- BGP4
- Policy based Routing(PBR)

SOFTWARE SPECIFICATION

Security

- 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
- Client Isolation

QoS

- Compliant with IEEE 802.11e Standard
- WMM

VLAN Tagging

- Supports 802.1q SSID-to-VLAN Tagging
- Cross-band VLAN Pass Through Management VLAN

SNMP
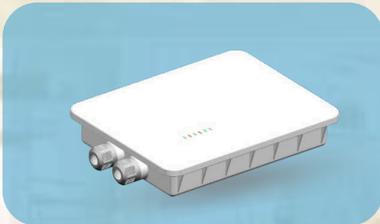
- v1, v2c, v3

MIB

- I/II, Private MIB

Management

- Local UI,SSH,TELNET,SNMP,TR069

Spanning Tree

- Supports 802.1d Spanning Tree Protocol
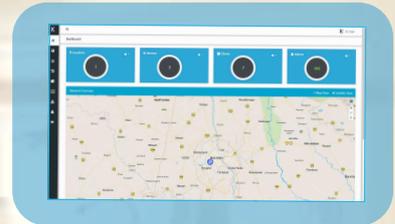
CLOUD MANAGEMENT

Wireless Access Point

Our enterprise WLAN APs are specifically engineered to meet the demanding networking needs of businesses, government agencies, educational institutions, and more.

WLAN Controller

It serves as a centralized platform that enables administrators to configure, monitor, and maintain multiple access points (APs) within the network.

Cloud Manangement

A powerful and intuitive web-based interface that revolutionizes the way you manage and monitor your wireless network infrastructure.

KAP130

KAP130 RF TABLE 2.4GHz

Operating Band	Operating Mode	Data Rate	TX Power	RX Sensitivity
2.4 GHz	802.11b	1 Mb/s	27 dBm	-96 dBm
		2 Mb/s	27 dBm	-93 dBm
		5.5 Mb/s	27 dBm	-91 dBm
		11 Mb/s	27 dBm	-89 dBm
2.4 GHz	802.11g	6 Mb/s	27 dBm	-91 dBm
		9 Mb/s	27 dBm	-90 dBm
		12 Mb/s	27 dBm	-88 dBm
		18 Mb/s	26 dBm	-87 dBm
		24 Mb/s	26 dBm	-84 dBm
		36 Mb/s	26 dBm	-81 dBm
		48 Mb/s	25 dBm	-76 dBm
		54 Mb/s	25 dBm	-75 dBm

KAP130

KAP-130 RF TABLE 2.4GHz

Operating Band	Operating Mode	Data Rate	TX Power	RX Sensitivity
2.4 GHz	802.11n (HT20)	MCS0/8	27/27 dBm	-91/91 dBm
		MCS1/9	27/27 dBm	-88/88 dBm
		MCS2/10	26/26 dBm	-85/85 dBm
		MCS3/11	26/26 dBm	-82/82 dBm
		MCS4/12	25/25 dBm	-79/79 dBm
		MCS5/13	25/25 dBm	-75/75 dBm
		MCS6/14	25/25 dBm	-73/73 dBm
		MCS7/15	24/24 dBm	-70/70 dBm
2.4 GHz	802.11n (HT40)	MCS0/8	27/27 dBm	-89/89 dBm
		MCS1/9	27/27 dBm	-86/86 dBm
		MCS2/10	26/26 dBm	-83/83 dBm
		MCS3/11	26/26 dBm	-80/80 dBm
		MCS4/12	25/25 dBm	-77/77 dBm
		MCS5/13	25/25 dBm	-73/73 dBm
		MCS6/14	25/25 dBm	-72/72 dBm
		MCS7/15	24/24 dBm	-70/70 dBm

KAP130

KAP-130 RF TABLE 5GHz

Operating Band	Operating Mode	Data Rate	TX Power	RX Sensitivity
5GHz	802.11a	6 Mb/s	26 dBm	-90 dBm
		9 Mb/s	26 dBm	-87 dBm
		12 Mb/s	26 dBm	-86 dBm
		18 Mb/s	26 dBm	-85 dBm
		24 Mb/s	25 dBm	-84dBm
		36 Mb/s	25 dBm	-79dBm
		48 Mb/s	25 dBm	-74dBm
		54 Mb/s	26 dBm	-71dBm
5GHz	802.11n (HT20)	MCS0/8	26/26 dBm	-88/-88 dBm
		MCS1/9	26/26 dBm	-85/-85 dBm
		MCS2/10	25/25 dBm	-83/-83 dBm
		MCS3/11	25/25 dBm	-79/-79 dBm
		MCS4/12	24/24 dBm	-76/-76 dBm
		MCS5/13	24/24 dBm	-72/-72 dBm
		MCS6/14	23/23 dBm	-71/-71 dBm
		MCS7/15	23/23 dBm	-69/-69 dBm

KAP130

Operating Band	Operating Mode	Data Rate	TX Power	RX Sensitivity
5GHz	802.11n(VH20)	MCS0/0	26/26 dBm	-88/-88 dBm
		MCS1/1	26/26 dBm	-86/-86 dBm
		MCS2/2	25/25 dBm	-83/-83 dBm
		MCS3/3	25/25 dBm	-79/-79 dBm
		MCS4/4	24/24 dBm	-77/-77 dBm
		MCS5/5	24/24 dBm	-75/-75 dBm
		MCS6/6	23/23 dBm	-72/-72 dBm
		MCS7/7	23/23 dBm	-70/-70 dBm
		MCS8/8	22/22 dBm	-67/-67 dBm
5GHz	802.11n (VHT40)	MCS0/8	26/26 dBm	-85/-85 dBm
		MCS1/9	26/26 dBm	-84/-87 dBm
		MCS2/10	25/25 dBm	-84/-84 dBm
		MCS3/11	25/25 dBm	-79/-79 dBm
		MCS4/12	24/24 dBm	-77/-77 dBm
		MCS5/13	24/24 dBm	-72/-72 dBm
		MCS6/14	23/23 dBm	-70/-70 dBm
		MCS7/15	23/23 dBm	-68/-68 dBm

KAP130

KAP-130 RF TABLE 5GHz

Operating Band	Operating Mode	Data Rate	TX Power	RX Sensitivity
5 GHz	802.11n (VHT40)	MCS0/0	26/26 dBm	-85/-85 dBm
		MCS1/1	26/26 dBm	-82/-82 dBm
		MCS2/2	25/25 dBm	-79/-79 dBm
		MCS3/3	25/25 dBm	-77/-77 dBm
		MCS4/3	24/24 dBm	-74/-74 dBm
		MCS5/5	24/24 dBm	-70/-70 dBm
		MCS6/6	23/23 dBm	-68/-68 dBm
		MCS7/7	23/23 dBm	-67/-67 dBm
		MCS8/8	22/22 dBm	-64/-64 dBm
		MCS9/9	22/22 dBm	-63/-63 dBm
5 GHz	802.11ac (VHT80)	MCS0/0	26/26 dBm	-83/-83 dBm
		MCS1/1	26/26 dBm	-81/-81 dBm
		MCS2/2	25/25 dBm	-79/-79 dBm
		MCS3/3	25/25 dBm	-76/-76 dBm
		MCS4/3	24/24 dBm	-73/-73 dBm
		MCS5/5	24/24 dBm	-70/-70 dBm
		MCS6/6	23/23 dBm	-67/-67 dBm
		MCS7/7	23/23 dBm	-66/-66 dBm

KAP-130 RF TABLE 5GHz

Operating Band	Operating Mode	Data Rate	TX Power	RX Sensitivity
		MCS8/8	22/22dBm	-62/-62 dBm
		MCS9/9	22/22 dBm	-60/-60 dBm

KENSTEL

KAP130

MECHANICAL SPECIFICATION

Temperature Range

Operating temperature -4o~140oF to -20oC~60oC | Storage Temperature -40Fo~176oF/-40oC~80oC
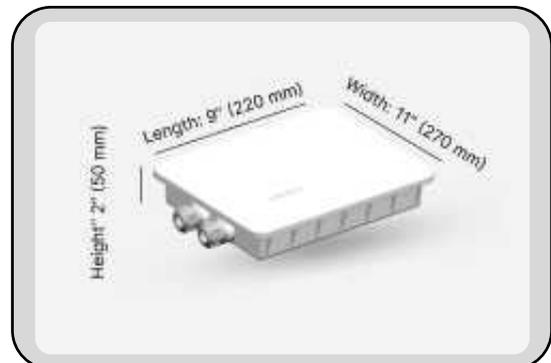

Waterproof & Dustproof

IP67-Rated Enclosure

Humidity (non-condensing)

Operating Humidity 90% or less
Storage Humidity 90% or less

Dimensions

Weight: 1Kg | Width: 11" (270 mm)|
Length: 9" (220 mm)| Height" 2" (50 mm)

Experience connectivity redefined with KAP130 - your partner in solving the challenges of indoor and industrial connectivity with unparalleled speed, reliability, and intelligence. Embrace the future of wireless communication with Kenstel!