

**Introducing: Breakthrough in Outdoor 5G CPE**  
The Ultimate Solution for Next-Gen Connectivity!

MODEL: **KCP-520**



### The Ultimate Solution for Next-Gen Connectivity!

Unleash the power of seamless connectivity in the great outdoors with the Kenstel KCP-520, a revolutionary 5G CPE featuring Dual-band 4x4 MIMO 802.11ax technology. Tailored for general-purpose and next-gen deployments, this robust device is designed to conquer the challenges of harsh outdoor environments and industrial conditions, offering unparalleled performance, enterprise-grade security, and effortless management.

**Solve Connectivity Challenges with KCP-520: Your Gateway to 5G Excellence!**

### Outperforming the competition, the Kenstel KCP-520 excels with unmatched 5G speeds.

*KCP520 Outdoor 5G CPE: 5G Breakthrough:*

- \* Explore the cutting-edge 5G technology with 5G NR FDD, 5G NR TDD, SA, and NSA[19] modes.
- \* 5G Spectrum: Sub-6 GHz, 5G/4G spectrum sharing for optimized connectivity.
- \* Experience the power of 200 MHz bandwidth and 4x4 MIMO for enhanced sub-6 GHz connectivity.

#### LIGHTNING-FAST SPEEDS:

Enjoy peak download speeds of 3000 Mbit/s and upload speeds of 1800 Mbit/s for seamless, lag-free performance. Achieve a maximum 5.4 Gbps aggregate frame rate, on WiFi using 4X4 MIMO.

#### SMART PERFORMANCE TECHNOLOGIES:

Benefit from Qualcomm's advanced technologies, including 5G PowerSave, Signal Boost, Smart Transmit, RF Gaming Mode Boost, and Wideband Envelope Tracking.

#### LTE EXCELLENCE FOR UNMATCHED CONNECTIVITY:

A Solution to Every Challenge!  
Versatile LTE Technology: LTE FDD, LTE TDD, CBRS support, LAA, and LTE Broadcast for comprehensive cellular connectivity. Explore a diverse range of cellular technologies, including WCDMA, TD-SCDMA, CDMA 1x, EV-DO, and GSM/EDGE.

#### NEXT-LEVEL LTE PERFORMANCE:

LTE Category 22 for downlink speeds up to 2500 Mbit/s with carrier aggregation and spatial streams. LTE Category 13 for uplink speeds up to 316 Mbit/s with carrier aggregation and 256-QAM.

Professional Outdoor Weather-proof Design



**RAIN**

ROBUST IP65 RATED  
WEATHERPROOF ENCLOSURE

**SNOW**

WITHSTAND TEMPERATURE RANGE  
OF -22-158°F (-30-70°C).

**WIND**

TOUGH SHELL  
TIGHT CONSTRUCTION

**THUNDER**

15KV ESD  
4KV LIGHTNING PROTECTION

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Your partner in solving the challenges of outdoor and industrial connectivity with unparalleled speed

## TECHNICAL PROWESS AT YOUR FINGERTIPS: KCP-520 SPECIFICATIONS

**\* Powerful Processor:** Qualcomm® 1GHz Dual-Core CPU with ARM Cortex A53 for robust performance.

**\* Memory Boost:** 512MB RAM and 256MB NAND FLASH for smooth operation.

**\* Antenna Superiority:** Dual-Concurrent Omni-Directional Antennas for WLAN and Wide band Omni- Directional Antennas for WWAN, ensuring optimal signal reception.

**\* Intelligent LED Indicators:** Power, LAN, WWAN, WLAN, and RSSI indicators for at-a-glance monitoring.

**\* Powerful Connectivity Options:** 10/100/1000/2500 BASE-T, RJ-45 Ethernet Port for versatile physical interface.

**\* Efficient Power Management:** Power-over-Ethernet (802.3af/at) or Proprietary 48V source, ensuring energy efficiency.

Unmatched Operational Excellence: WLAN Features

**\* Dual-Radio Excellence:** Operate seamlessly on 2.4GHz & 5 GHz frequencies for uninterrupted connectivity.

**\* Adaptive Operation Modes:** Switch effortlessly between Access Point (AP) and Mesh modes.

**\* High-Powered Transmit:** Transmit power of 26 dBm for both 2.4 GHz and 5 GHz frequencies.

**\* Reliable Data Rates:** Maximize data rates with support for up to 4802 Mbps on 5 GHz and 576 Mbps on 2.4 GHz. Effortless Management for Peak Performance:

**\* VLAN Tagging and Management:** Supports 802.1q SSID-to-VLAN Tagging and Cross- band VLAN Pass Through for efficient network management.

**\* Spanning Tree Protocol:** Ensures network stability with support for 802.1d Spanning Tree Protocol.

**\* Quality of Service (QoS):** Compliant with IEEE 802.11e Standard and Wi-Fi Multimedia (WMM) for superior QoS.

**\* Advanced SNMP Capabilities:** Supports v1, v2c, and v3 SNMP protocols, along with MIB/II and Private MIB for comprehensive network monitoring.

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## TECHNICAL PROWESS AT YOUR FINGERTIPS: KCP-520 SPECIFICATIONS

### \* Cellular

Cellular Status: Signal strength (RSSI), Modem Status, IMEI, IMSI, Roaming Status, Operator, Band, PLMN, EARFCN, Preferred Network Type

### \* VPN

Ipssec: IKEV2, with 76 encryption methods for IPsec (des-md5-dh1, des-md5-dh2, des-md5-dh5, etc.)

PPTP: PPTP Supports

L2tp: L2tpv3 over ipv4/ipv6 and L2tp over ipsec support.

GRE: Can run multiple gre tunnel over ipv4/ipv6 (L2 and L3 Supported).

OpenVPN

43 encryption methods for open vpn

(BF-CBC 128, BF-CFB 128, BF-OFB 128, CAST5-CBC 128, CAST5-CFB 128, CAST5-OFB 128, etc.)

### \*Routing

Static routing, Dynamic routing (BGP, OSPF v2, RIP v1/v2), Policy based routing

### \*Network Protocol

TCP, UDP, IPv4, IPv6, ICMP, , DNS, HTTP, HTTPS, SFTP, FTP, SMTP, SSL/TLS, ARP,, PPP, PPPoE, UPNP, SSH, DHCP, Telnet, SMPP, SMNP.

### \*Captive Portal

Multiple Authentication Type(No authentication,Simple Password,Local User,LocalUser with Active Directory,SMS), Customize captive portal.

### \*QOS

Bandwidth control over network, user wise bandwidth control.

### \*SDN

Wan Failover and Load Balancing.

### \*Firewall

Port Forwarding, Ip Filtering, Mac Filtering, Port Filtering, Url Filtering, NAT, ips, Attack Defense(Flood attack prevention).

### \*Stats

Network stats, Cellular Stats, Client Stats.

### \*Management

WebUi, Cloud Management, Snmp, tr069.

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Robust LTE capabilities, advanced Qualcomm technologies, and durable design, redefining outdoor connectivity with superior speed, reliability, and intelligence."

**"SEAMLESS , HIGH-PERFORMANCE OUTDOOR CONNECTIVITY IN HARSH ENVIRONMENTS ."**

### Built to Withstand: Mechanical Specifications of KCP-520

**•Extreme Temperature Range:**

Operating temperature from -40°F to 140°F and storage temperature from -40°F to 176°F.

**•Weather-Resistant Enclosure:**

IP67-Rated waterproof and dustproof enclosure for reliable outdoor use.

**•Compact and Durable Design:**

Weighing only 1.5Kg with dimensions of 10" x 10" x 3.2", providing a compact yet robust solution.



Experience connectivity redefined with KCP-520 - your partner in solving the challenges of outdoor and industrial connectivity with unparalleled speed, reliability, and intelligence. Embrace the future of communication with Kenstel!

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