# KRIFI | KKAC

## KRIFI ENCRYPTED WI-FI ACCESS POINT

#MilitaryCommunication


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# KRIFI ENCRYPTED WI-FI ACCESS POINT

KriFi Encrypted Wi-Fi Access Point is an KriFi Encrypted Wi-Fi Access Point Device. It supports IEEE802.11ac protocol, communicates with peer devices and KriFi Encrypted Wi-Fi Terminal Devices and uses a trust relationship to prevent unauthorized access to the Wi-Fi network. It uses a national secret encryption algorithm for secure communication. Access to the secure network and establishment of an encrypted connection requires a 3 Factor Authentication. KriFi Encrypted Wi-Fi Access Point supports mesh network architecture; if one or more network devices fail, active connections are rerouted through the remaining devices and the network stays operational. KriFi Encrypted Wi-Fi Access Point supports MAC address filtering; only devices with predefined MAC addresses can access the secure network. It has an encrypted data communication speed of 300 MBitps. KriFi Encrypted Wi-Fi Access Points are used in connection with KriFi Encrypted Wi-Fi Terminal Devices and a dedicated Wireless Network Management Software.

**Properties of KriFi Encrypted Wi-Fi Access Points**

- The encryption algorithm is designed and developed in Türkiye and certified as national secret.
- Encrypted communication between Encrypted Wi-Fi Access Points can only start after a successful 3 factor authentication.
- All encryption protocols used, including the 3 factor authentication, are certified as national secret.
- National secret certification is issued by the certification authority of the office of General Chief of Staff of the Turkish Army.
- If one or more KriFi Encrypted Wi-Fi Access Points in the mesh network fail, terminals (KriFi encrypted wi-fi terminal devices) connected to those failed KriFi Encrypted Wi-Fi Access Points are automatically rerouted through the remaining KriFi Encrypted Wi-Fi Access Points and stay operational.
- Power can be supplied from the standard 220 V network or an external AC power source.
- Device antennas are omnidirectional and each antenna has 5 dBi gain at 5 GHz. KriFi Encrypted Wi-Fi Access Point is operational from –20 °C to +55 °C and in the relative humidity range from 10% to 95%.
- KriFi Encrypted Wi-Fi Access Point is a MIMO device that supports IEEE802.11ac Wi-Fi protocol.
- 3 spatial streams are supported.
- 40 MHz and 80 MHz channels are supported.
- DFS is supported.
- If one or more KriFi Encrypted Wi-Fi Access Points in the mesh network fail, active connections are rerouted through the remaining KriFi Encrypted Wi-Fi Access Points and the network stays operational.
- WIPS is supported.
- In connection with the wireless network management software, KriFi Encrypted Wi-Fi Access Point adjusts antenna power to determine the coverage area.
- In connection with the wireless network management software, KriFi Encrypted Wi-Fi Access Point chooses the frequency channel.
- KriFi Encrypted Wi-Fi Access Point supports MAC address filtering; only devices with predefined MAC addresses can access the secure network.
- Mesh network is supported.
- In the mesh network, the most suitable path to the root KriFi Encrypted Wi-Fi Access Point is chosen automatically for each KriFi Encrypted Wi-Fi Access Point. If an KriFi Encrypted Wi-Fi Access Point in the mesh network fails, the affected KriFi Encrypted Wi-Fi Access Points are automatically rerouted to the root KriFi Encrypted Wi-Fi Access Point by calculating the most suitable path for each of them in the available network. The loss of communication has a maximum duration of 40 seconds.
- If coverage areas of different networks overlap so that KriFi Encrypted Wi-Fi Access Points belonging to other networks enter the coverage area of a given network, each KriFi Encrypted Wi-Fi Access Point will stay connected to its own network. network operation will not be affected.
- KriFi Encrypted Wi-Fi Access Point has an encrypted data communication speed of 300 MBitps.
- Encrypted Wi-Fi access point can be managed by the dedicated wireless network management software.



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