MiniKAC

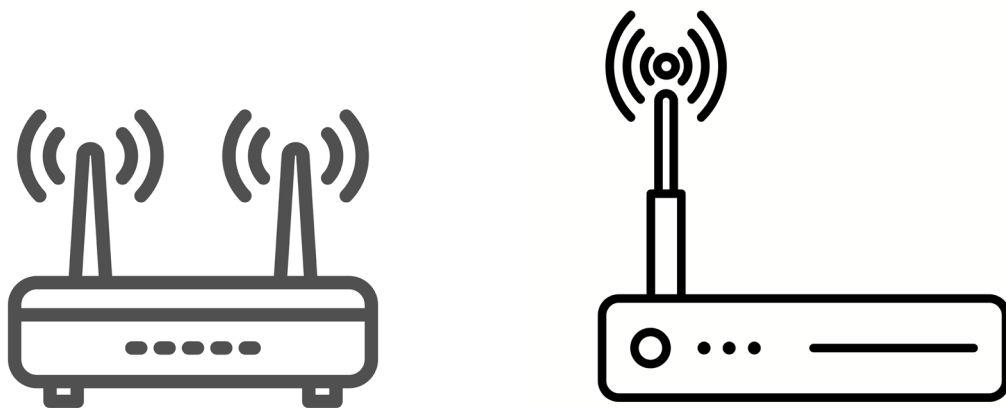## MINI WI-FI NETWORK DEVICE

MiniKAC

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Mini Wireless Network Device (MiniKAC) is an advanced, lightweight and compact version of the first generation Encrypted Wireless Network Device (KKAC). MiniKAC is a Wi-Fi access point that can establish an IEEE802.11ac compliant Wi-Fi connection with Terminal Wireless Network Connection Devices (TKABCs), encrypt the traffic between them, create a trust relationship between devices and prevent unauthorized wireless network devices from accessing the network.

A National Secret secrecy algorithm is used for encrypted wireless communication. The Mini Wireless Network Device performs layer 3 routing and supports the HWMP protocol. The device is available in encrypted military, encrypted industrial and non-encrypted industrial versions.

MiniKAC devices are used with TKABCs and ASELSAN Wireless Network Management Software.

Properties of Mini Wireless Network Device

- The algorithm used for encrypted communication was nationally designed and implemented to allow communication with National Confidentiality.
- Encrypted communication between devices is protected by mutual 3 Way Authentication Protocol.
- All cryptographic protocols used during the communication of devices, including the 3 Way Authentication Protocol, are designed to allow communication at the National Confidentiality level.
- Crypto which enables the communication with National Confidentiality is approved by the Presidency of General Staff.
- The device conforms to the TEMPEST and COMSEC criteria determined by the Presidency of General Staff, which is the authorized approval authority.
- MiniKAC device can be fed from the city network or from an external AC energy source.
- The device is used with multi-directional antennas providing at least 5dBi gain at 5GHz frequency.

- The device can operate in a temperature range of –20 ° C to +55 ° C and a humidity range of 10% to 95%.
- The device communicates with the 802.11ac protocol and has MIMO feature.
- Spatial Stream number is 3.
- 40 MHz and 80 MHz channels are supported.
- DFS support is available.
- Mesh structure is supported.
- If one or more of the devices that make up the distributed wireless network are disabled, the rest of the network can continue to communicate with each other.
- The device has WIPS support.
- The instant total encrypted data flow rate of the Mini Wireless Network Device is 300 MBit/s.
- One 1000BaseT Ethernet interface is used for red data connection.
- Mini Wireless Network Device can be managed by ASELSAN Wireless Local Area Network Management Software.

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ASELSAN A.Ş. is a Turkish Armed Forces Foundation company.