



EAO2522P

Outdoor 5G NR Wi-Fi 6 Router

Askey EAO2522P is a rugged, carrier-grade outdoor 5G NR Wi-Fi 6 router, designed to deliver high-speed connectivity in challenging environments. Featuring dual-band, dual-concurrent (DBDC) MU-MIMO Wi-Fi 6, it provides an aggregate link rate of up to 1.8Gbps, ensuring seamless wireless performance across 2.4GHz and 5GHz bands.

Askey EAO2522P is packed with advanced features that enhance performance, reliability, and ease of deployment. It supports multi-WAN connectivity, combining Gigabit Ethernet, SFP+ fiber backhaul, and 5G NR failover, ensuring uninterrupted network access even in demanding environments. Designed for effortless installation, the pole and wall mountable IP67-rated weatherproof enclosure ensures durability against harsh outdoor conditions and the support for PoE++ (Power over Ethernet) compatibility eliminates the need for separate power sources. Additionally, with cloud-managed TR-069 support, seamless remote monitoring and configuration is possible, whether deployed individually or as part of a larger network. These features make the EAO2522P a versatile, high-performance connectivity solution built for scale, efficiency, and enterprise-grade.

As a cost-effective addition to Askey's end-to-end 5G portfolio, the EAO2522P combines enterprise-grade performance with outdoor durability, making it a powerful, high-speed connectivity solution for smart cities, industrial applications, public Wi-Fi, and rural broadband expansion.

Askey helps you **evolve** your business to meet today's market speed and demands, backed by our market **knowledge** to make you **stronger**.

For more information, please visit [Askey/Enterprise Wi-Fi](#)

Physical

- CPU:
Qualcomm® IPQ6010 quad-core
Cortex-A53 1.8GHz
- IRAM: DDR4 DRAM ~ 1GB
- Flash: eMMC(NAND) ~ 8GB
- Dimensions:
368 x 238 x 122 (HxWxD, mm)
- Interfaces:
 - GE1 WAN: 1x100/1000Base-T Ethernet,
RJ-45 with 802.3bt PoE++
 - GE2 WAN: 1 x 100/1000Base-T Ethernet
 - 1 x SFP+ slot
 - 1 x nano SIM slot
- LED Indicator: Single LED (RGB)
- Power Consumption: 26 Watt
- Environmental:
 - Operating Temperature: -40°C ~ 70°C ①
 - Operating Humidity:
10% to 95% non-condensing
 - Sealing: IP67
- Antenna type:
 - 2 x internal single-band
2.4G Wi-Fi antenna
 - 2 x internal single-band
5G Wi-Fi antenna
 - 6 x internal 5GNR antenna
(including GPS)
- Mounting:
Pole and wall mountable options

Software

- Standards:
 - 2.4GHz: 802.11b/g/n/ax
 - 5GHz: 802.11a/n/ac/ax
- Radio Chains: 2 x 2
- Spatial Streams: 2
- Performance:
 - 2.4GHz: Up to 573.5 Mbps PHY rate
 - 5 GHz: Up to 1201 Mbps PHY rate
- Maximum Transmit Power:
 - 2.4 GHz: Up to 27 dBm ②
(combined power)
 - 5GHz: Up to 26 dBm ②
(combined power)
- Maximum Receiver Sensitivity:
 - 2.4GHz 802.11n(HT20): -91dBm@MCS0;
-71dBm@MCS15
 - 2.4GHz 802.11n(HT40): -88.5dBm@MCS0;
-70dBm@MCS15
 - 5GHz 802.11ac(VHT40): -86.5dBm@MCS0NSS1;
-61dBm@MCS9NSS2
 - 5GHz 802.11ac(VHT80): -82dBm@MCS0NSS1;
-60dBm@MCS9NSS2
- Maximum Number of Clients:
Up to 128 per radio
- ESSIDs: Up to 4 per radio

① -30°C – 70°C without heater

② Maximum power limited by local regulatory requirements

③ Some items would be provided by management platform

5G NR / LTE

- Cellular Standard:
 - 5G Sub-6 FDD: n1, n3, n5, n7, n8,
n20, n25, n28, n66
 - 5G Sub-6 TDD : n38, n40, n41, n48,
n77, n78, n79
 - LTE: B1, B2, B3, B5, B7, B8, B11, B18,
B19, B20, B21, B25, B26, B28, B32,
B34, B38, B39, B40, B41, B42, B43,
B46, B48, B66
 - 3G (HSPA+, WCDMA): B1, B2, B5, B8
 - GNSS: GPS/QZSS Glonass , Galileo,
BeiDou
- Data Rate:
 - 5G Sub-6:
 - > 2 Gbps (DL)
 - DL 4 x 4 MIMO (bands > 1GHz)
 - DL 2 x 2 MIMO (bands < 1GHz)
 - UL 2 x 2 MIMO (n41/n77/n78/n79)
 - LTE:
 - UL Cat 18: 2CC intra-band contiguous
and 2CC inter-band, 256QAM
 - DL Cat 20: up to 7CC @ 20 Layers
in 5 Bands
 - DL 4 x 4 MIMO (bands > 1GHz)
 - DL 2 x 2 MIMO (bands < 1GHz)
- Region:
EMEA (Europe, the Middle East and Africa)
APAC (Asia Pacific)

Box Contents

- EAO2522P
- Cable glands x 1 for SFP+
- Cable glands x1 for Ethernet
- Mounting plate with screws

Enterprise Use Cases

- Smart Cities
- Public Wi-Fi Access
- Remote/Rural Broadband
- Large Campus

Model Numbers (SKU)

- Model Name: EAO2522P
80D9-000310 for EU, AU, US
80D9-000330 for TW

SOFTWARE FEATURES

- Networking:
 - Router /Access Point/Extender Mode
 - DHCP/ PPPoE /Static IP
 - IPv4/IPv6 Dual Stack
 - Multi-WAN Failover
 - VLAN 802.1Q
 - QoS
- Wi-Fi:
 - Mesh Controller/Agent
 - Multiple SSIDs
 - WMM Queues Priority
 - Access Control
 - Client Authentication Protocols
 - WPA2/WPA3Enterprise/Personal
 - Beamforming
 - Airtime Fairness
 - Client Isolation
 - MU-MIMO
 - OFDMA
 - PMK Caching
 - DFS
 - Wireless Scheduler
- Management 3 :
 - Automatic Provisioning
 - FOTA
 - Zero Touch Deployment
 - Web UI
 - SSH
 - TR-069/TR-181
 - XMPP
 - Remote Troubleshooting
 - SNMP
- Security:
 - Unique Password per Unit
 - RADIUS Support
 - ALGs
 - MAC Address Filtering
 - Web Filtering
 - IP Filtering
 - Content Filtering
 - URL Filtering
 - Service Filtering
 - Security Boot Loader
 - Image Signature
- Monitoring ③ :
 - APs/Clients Monitoring
 - Visualization & Report for AP
 - Location Service and Network Map
 - Data Monitoring and Notification
 - System Performance Monitoring
 - Logs Monitoring
 - Client Statistics and Detection

