




	ACCESS POINT NS-5ACL UBIQUITI	ACCESS POINT 4G LTE +ROUTER TL-MR100 2.4 GHz 300 Mbps TP-LINK	ACCESS POINT RG-AP680-L Wi-Fi 6, SFP 2.4 GHz, 5 GHz, 547 Mbps + 2402 Mbps RUIJIE
			
	261.64 PLN 261.64 PLN	258.75 PLN 258.75 PLN	2240.00 PLN 2240.00 PLN
Polarization	vertical/horizontal	...	...
VSWR	max. 1.8 : 1	...	...
Frequency range	5150 MHz ... 5875 MHz	2.4 GHz	<ul style="list-style-type: none"> • 2.4 GHz (2.4 ... 2.4835 GHz), • 5 GHz (5.150 ... 5.250, 5.250 ... 5.350, 5.470 ... 5.725, 5.725 ... 5.850 GHz)
Antenna type	MIMO TDMA 13 dBi Integrated	WiFi embedded , 2 x 4G LTE - 2 x SMA socket - Possibility to connect the wire antenna	2x2 MU-MIMO - built-in • 2.9 dBi @ 2.4 GHz - 2 pcs • 4.9 dBi @ 5 GHz - 2 pcs
Standards	<ul style="list-style-type: none"> • IEEE 802.11a • IEEE 802.11n • IEEE 802.11ac 	IEEE 802.11 b/g/n	<ul style="list-style-type: none"> • IEEE 802.11 b/g/n/ax @ 2.4 GHz, • IEEE 802.11 a/n/ac/ax @ 5 GHz
Baud rates	...	11n : 300 Mbps 11g : 54 Mbps 11b : 11 Mbps LTE : 150 Mbps	547 Mbps @ 2.4 GHz + 2402 Mbps @ 5 GHz
LAN ports	1 x 10/100/1000 Mbps	<ul style="list-style-type: none"> • 1 x 10/100 Mbps - LAN/WAN • 1 x 10/100 Mbps - LAN 	<ul style="list-style-type: none"> • 1 x 10 / 100 / 1000 Mbps Ethernet + PoE IN - RJ45, • 1 x 1000 Mbps - SFP
Port USB	...	...	—
LED indicators	...	Power, WAN, WLAN, LAN, GSM	Power / System, 3 x Signal indicator

Receiver sensitivity	<ul style="list-style-type: none"> • -96 dBm ± 2 dB @ 1 x BPSK (1/2) • -95 dBm ± 2 dB @ 2 x QPSK (1/2) • -92 dBm ± 2 dB @ 2 x QPSK (3/4) • -90 dBm ± 2 dB @ 4 x 16-QAM (1/2) • -86 dBm ± 2 dB @ 4 x 16-QAM (3/4) • -83 dBm ± 2 dB @ 6 x 64-QAM (2/3) • -77 dBm ± 2 dB @ 6 x 64-QAM (3/4) • -74 dBm ± 2 dB @ 6 x 64-QAM (5/6) • -69 dBm ± 2 dB @ 8 x 256-QAM (3/4) • -65 dBm ± 2 dB @ 8 x 256-QAM (5/6) 	<ul style="list-style-type: none"> • 11g 54M : -74 dBm • 11n HT20 : -71 dBm • 11n HT40 : -68 dBm 	...
Operating system	AirOS	...	...
Network type	...	<ul style="list-style-type: none"> • 4G : FDD-LTE B1/B3/B5/B7/B8/B20 - 2100 / 1800 / 850 / 2600 / 900 / 800 MHz • 4G : TDD-LTE B38/B40/B41 - 2600 / 2300 / 2500 MHz • 3G : HSPA/UMTS B1/B5/B8 - 2100 / 850 / 900 MHz 	...
LTE	...	✓	...
QSS	...	—	...
WDS	...	—	...
DDNS	...	<ul style="list-style-type: none"> • DynDNS • No-IP 	—
DHCP server	...	✓	✓
Firmware update	...	✓	✓
Mobile phones support	...	...	Android: Free application Ruijie Rejee iOS (iPhone): Free application Ruijie Rejee
Default IP address	...	...	192.168.110.1



Protections	Overvoltage protection \pm 24 kV Contact/Air (ESD/EMP)	<ul style="list-style-type: none"> • WEP 64/128-bit, WPA/WPA2, WPA-PSK/WPA2-PSK • SPI network firewall • IP-MAC Binding 	<ul style="list-style-type: none"> • WEP 64/128-bit, WPA-TKIP, WPA-PSK, WPA2 AES • IEEE 802.1x and Radius Authentication • Black list • Access Control List - ACL package filtering based on source and destination MAC addresses • CPP • NFPP • SSID hiding
Management interface	...	Web browser	<ul style="list-style-type: none"> • Ruijie Cloud Central Management System • Configuration using the Ruijie Reeye application • Remote management • Web browser • Console - RJ-45 output
Operation modes	Access Point - Point to Point, Access Point - Point to Multi Point, Station - Point to Point, Station - Point to Multi Point	<ul style="list-style-type: none"> • Router, • Router 4G LTE 	Access Point
Transmitter power	<ul style="list-style-type: none"> • 25 dBm \pm 2 dB @ 1 x 8PSK (1/2) • 25 dBm \pm 2 dB @ 2 x Mbps QPSK (1/2) • 25 dBm \pm 2 dB @ 2 x QPSK (3/4) • 25 dBm \pm 2 dB @ 4 x 16-QAM (1/2) • 25 dBm \pm 2 dB @ 4 x 16-QAM (3/4) • 25 dBm \pm 2 dB @ 6 x 64-QAM (2/3) • 24 dBm \pm 2 dB @ 6 x 64-QAM (3/4) • 23 dBm \pm 2 dB @ 6 x 64-QAM (5/6) • 21 dBm \pm 2 dB @ 8 x 256-QAM (3/4) • 21 dBm \pm 2 dB @ 8 x 256-QAM (5/6) 	< 20 dBm	<ul style="list-style-type: none"> max. 28 dBm @ 2.4 GHz max. 28 dBm @ 5 GHz
Horizontal beam width (H)	45 °	...	...
Vertical beam width (V)	45 °	...	...
Memory	64 MB DDR2	...	...
Housing	...	...	Plastic, hermetic
Processor	Atheros MIPS 74KC, 560MHz	...	...
"Index of Protection"	...	...	IP68
Power supply PoE	✓	...	PoE (802.3af/at)

Power supply	24 V / 0.5 A - Gigabit PoE (power adapter not included)	9 V DC / 0.85 A (power adapter included)	<ul style="list-style-type: none"> • 48 V DC / 0.35 A (not included) • PoE / PoE+
Power consumption	7 W	...	max. 12.95 W
Operation temp	-40 °C ... 70 °C	0 °C ... 40 °C	-40 °C ... 65 °C
Permissible relative humidity	5 % ... 95 %	10 % ... 90 % (non-condensing)	0 % ... 100 % (non-condensing)
Main features	<ul style="list-style-type: none"> • Management Radio 2.4GHz - Management and configuration of the device via Wi-Fi • Throughput up to 450 Mbps • Range up to 10+ km • Channel bandwidths 10/20/30/40/50/60/80 MHz • Extra radio module for device management • The device is designed to work both inside and outside the building • Very easy and quick installation without any tools • It has a tight and UV-resistant housing 	<ul style="list-style-type: none"> • Number of users - max. 32 • SIM socket - The nanoSIM cards support • WPS/RESET button • Enable/disable wireless network • WMM (Wi-Fi Multimedia) • Wireless Network Schedule • Wireless transmission statistics • The failover function enabling automatic switching between 4G/WAN interface in the case of an Internet network connection loss • Static / dynamic routing • PPTP • L2TP • Remote management • DHCP client list • Port forwarding : UPnP, DMZ • Guest Network - a separate and secure network for guests 	<ul style="list-style-type: none"> • Wi-Fi 6 support - a standard that offers higher speeds, better performance in high-traffic environments • OFDMA • MU-MIMO - a multi-antenna transmission function that allows to increase the bandwidth and reliability of connection with the client of the network • Load balance • WLAN : 32 x BSSID - 16 x Wireless BSSID • Multicast • IPv4/IPv6 • ICMP - Static routing • VPN support : IPsec, PPPoE • SNMP • Statistical Reporting, System logs • DHCP client • Bluetooth 5.0 interface • RESET button • Signal indicator • Industrial wide temperature design. • Overvoltage protection : 9 kV
Weight	0.177 kg	0.184 kg	• 1.13 kg (without bracket)
Dimensions	179 x 78 x 59 mm	155 x 114 x 34 mm	251 x 168 x 64 mm (without bracket)
Manufacturer / Brand	UBIQUITI	TP-LINK	RUIJIE
Guarantee	2 years	3 years	3 years