ACCESS POINT

NV-AP7

Indoor Wi-Fi 7 Access Point (2.4GHz / 5GHz)

KEY FEATURES

- The latest Wi-Fi 7 (802.11be) standard with a combined throughput of up to 3600 Mbps.
- Support for advanced MLO (Multi-Link Operation) technology and 4096-QAM modulation.
- Ultra-efficient network interface: 2.5 Gigabit WAN Port and 1 Gigabit LAN Port.
- Powerful hardware foundation (512MB RAM DDR4, Qualcomm chipset) supporting up to 128 simultaneous users.

The NV-AP7 is an uncompromising ceiling-mount access point designed for the most demanding business environments.

Utilizing the revolutionary Wi-Fi 7 standard, the device guarantees gigabit data transfer speeds without delays, making it an ideal solution for modern offices, hotels, schools, and conference centers.

Thanks to Multi-Link Operation (MLO) technology and 4096-QAM modulation, the unit offers unprecedented connection stability even in highly congested areas.

Equipped with a 2.5G WAN port and flexible power options (including PoE+ 802.3at), the access point seamlessly integrates with modern network infrastructure, offering full AC controller management and reliable operation under the highest loads.

PROMITEL

Promitel Sp. z o. o. Sp. k.
ul. Katowicka 16B
41-500 Chorzów, Polska / Poland

Tel: +48 32 346 30 06
E-mail: info@promitel.pl
Web: https://promitel.pl

TECHNICAL SPECIFICATIONS

Model	NV-AP7
Hardware Configuration	
Main Chip	IPQ5312+QCN6422+QCA8081+QCA8337
Memory	512MB DDR4
Flash	Nand 128MB
2.4G Frequency	2.4GHz~2.484GHz
5G Frequency	5.150GHz~5.825GHz
Wireless Technology	2.4GHz Band: IEEE 802.11 b/g/n/ax/be, theoretical maximum data rate up to 688Mbps 5GHz Band: IEEE 802.11 a/n/ac/ax/be, theoretical maximum data rate up to 2882Mbps
Dual Band Antenna	2.4GHz: 2x4dBi 5GHz: 2x4dBi

2.4G TX Power

Standard	Data Rate / MCS	Typical TX Power	Data Rate / MCS	Minimum TX Power
802.11b	11M	24±2dBm	1M	24±2dBm
802.11g	54M	23±2dBm	6M	24±2dBm
802.11n HT20	MCS7	22±2dBm	MCS0	24±2dBm
802.11n HT40	MCS7	22±2dBm	MCS0	24±2dBm
802.11ax HE20	MCS11	20±2dBm	MCS0	24±2dBm
802.11ax HE40	MCS11	20±2dBm	MCS0	24±2dBm
802.11be EHT20	MCS13	20±2dBm	MCS0	24±2dBm
802.11be EHT40	MCS13	20±2dBm	MCS0	24±2dBm

5G TX Power

Standard	Data Rate / MCS	Typical TX Power	Data Rate / MCS	Minimum TX Power
802.11a	54M	21±2dBm	6M	23±2dBm
802.11n HT20	MCS7	20±2dBm	MCS0	23±2dBm
802.11n HT40	MCS7	20±2dBm	MCS0	23±2dBm
802.11ac VHT20	MCS7	19±2dBm	MCS0	23±2dBm
802.11ac VHT40	MCS7	19±2dBm	MCS0	23±2dBm
802.11ac VHT80	MCS9	19±2dBm	MCS0	23±2dBm
802.11ax HE20	MCS11	18±2dBm	MCS0	23±2dBm
802.11ax HE40	MCS11	18±2dBm	MCS0	23±2dBm
802.11ax HE80	MCS11	18±2dBm	MCS0	23±2dBm
802.11ax HE160	MCS11	18±2dBm	MCS0	23±2dBm
802.11be EHT20	MCS13	18±2dBm	MCS0	23±2dBm
802.11be EHT40	MCS13	18±2dBm	MCS0	23±2dBm
802.11be EHT80	MCS13	18±2dBm	MCS0	23±2dBm
802.11be EHT160	MCS13	18±2dBm	MCS0	23±2dBm
802.11be EHT240	MCS13	18±2dBm	MCS0	23±2dBm

2.4G Receiving Sensitivity

Standard	Data Rate / MCS	Typical RX Power	Data Rate / MCS	Minimum RX Power
802.11b	11M	-89dBm	1M	-95dBm
802.11g	54M	-75dBm	6M	-92dBm
802.11n HT20	MCS7	-72dBm	MCS0	-88dBm
802.11n HT40	MCS7	-70dBm	MCS0	-86dBm
802.11ax HE20	MCS11	-62dBm	MCS0	-88dBm
802.11ax HE40	MCS11	-60dBm	MCS0	-86dBm
802.11be EHT20	MCS13	-60dBm	MCS0	-86dBm
802.11be EHT40	MCS13	-60dBm	MCS0	-86dBm

<table>
<tr><td>5G Receiving Sensitivity</td><td>
<table>
<tr><th>Standard</th><th>Data Rate / MCS</th><th>Typical RX Power</th><th>Data Rate / MCS</th><th>Minimum RX Power</th></tr>
<tr><td>802.11a</td><td>54M</td><td>-75dBm</td><td>6M</td><td>-92dBm</td></tr>
<tr><td>802.11n HT20</td><td>MCS7</td><td>-72dBm</td><td>MCS0</td><td>-88dBm</td></tr>
<tr><td>802.11n HT40</td><td>MCS7</td><td>-70dBm</td><td>MCS0</td><td>-86dBm</td></tr>
<tr><td>802.11ac VHT20</td><td>MCS7</td><td>-65dBm</td><td>MCS0</td><td>-88dBm</td></tr>
<tr><td>802.11ac VHT40</td><td>MCS7</td><td>-62dBm</td><td>MCS0</td><td>-86dBm</td></tr>
<tr><td>802.11ac VHT80</td><td>MCS9</td><td>-60dBm</td><td>MCS0</td><td>-84dBm</td></tr>
<tr><td>802.11ax HE20</td><td>MCS11</td><td>-60dBm</td><td>MCS0</td><td>-90dBm</td></tr>
<tr><td>802.11ax HE40</td><td>MCS11</td><td>-58dBm</td><td>MCS0</td><td>-88dBm</td></tr>
<tr><td>802.11ax HE80</td><td>MCS11</td><td>-54dBm</td><td>MCS0</td><td>-84dBm</td></tr>
<tr><td>802.11ax HE160</td><td>MCS11</td><td>-54dBm</td><td>MCS0</td><td>-82dBm</td></tr>
<tr><td>802.11be EHT20</td><td>MCS13</td><td>-54dBm</td><td>MCS0</td><td>-86dBm</td></tr>
<tr><td>802.11be EHT40</td><td>MCS13</td><td>-52dBm</td><td>MCS0</td><td>-84dBm</td></tr>
<tr><td>802.11be EHT80</td><td>MCS13</td><td>-50dBm</td><td>MCS0</td><td>-82dBm</td></tr>
<tr><td>802.11be EHT160</td><td>MCS13</td><td>-48dBm</td><td>MCS0</td><td>-80dBm</td></tr>
<tr><td>802.11be EHT240</td><td>MCS13</td><td>-48dBm</td><td>MCS0</td><td>-80dBm</td></tr>
</table>
</td></tr>
<tr><td>2.4G EVM</td><td>802.11b: -10 dB; 802.11g: ≤-25 dB; 802.11n: ≤-28dB; 802.11ax: ≤-35 dB; 802.11be: ≤-38 dB</td></tr>
<tr><td>5G EVM</td><td>802.11a: ≤-25 dB; 802.11n: ≤-28 dB; 802.11ac: ≤-32 dB; 802.11ax: ≤-35 dB; 802.11be: ≤-38 dB</td></tr>
<tr><td>ppm</td><td>±20ppm</td></tr>
<tr><td>WAN Interface</td><td>1*10/100/1000/2500Mbps, support 48V POE</td></tr>
<tr><td>LAN Interface</td><td>1*10/100/1000Mbps</td></tr>
<tr><td>Indicators</td><td>Front Panel-Red/Green/Blue:
Power On: Red ON → System Start → Green ON & Red OFF → Wi-Fi Active
Thin AP-AC disconnected: Red ON & Green OFF & Blue ON
AP Locator: Blue Flashes (1 time/second), Red & Green OFF</td></tr>
<tr><td>One-Key Reset</td><td>Press & Hold 6-10s Factory Reset</td></tr>
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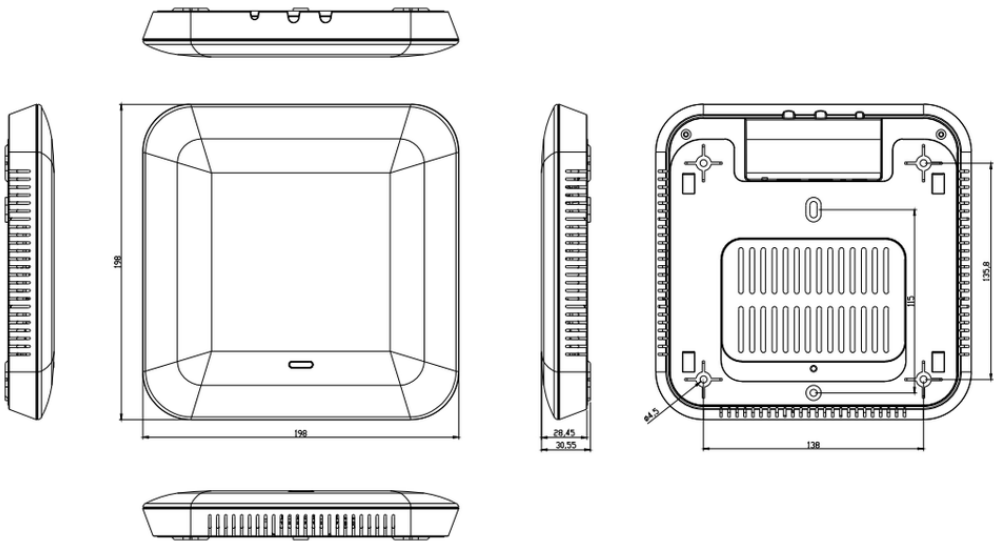
Power	POE 802.3at / DC12V2A
Max Power Consumption	<24W
Weight	1.6kg
Operating/Storage Temperature	-20°C~55°C / -40°C~70°C
Operating/Storage Humidity	10%~90%(non-condensing) / 5%~95%(non-condensing)
Dimensions	304mm × 181mm × 88mm
ESD	Air +/-8K, Contact +/-6K
Surge protection	line to ground 2K, line to line 1K
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS
WiFi Specification	
Working Mode	Gateway Mode: The device connects to the WAN port and accesses the Internet via static IP, DHCP, or PPPoE. Repeater Mode: In this mode, the device extends an existing wireless network to other clients or devices. It can also connect via Ethernet to another router to access the WAN. AP Mode: The device provides wireless coverage for clients and devices, connecting via Ethernet to a router to access the WAN.
Wireless Functions	Multiple SSID functions: 2.4GHz: 4; 5.8GHz: 4. Support Watchdog/Reboot Scheduling Support SSID hidden Support seamless roaming Support 5G Prior for a faster Ethernet. Support unicode characters supported Wireless Security: Open, WPA, WPA2PSK_TKIPAES, WAP2_EAP, WPA3 Support MAC filter Support Wi-Fi time on/off to save energy Support client isolation to improve the wireless stability Support RF power adjustable, adjust the RF power based on environment.
Networking Function	VLAN settings Support gateway mode
Device Management	Back-up the configuration Restore the configuration Reset to factory default Reboot the device: including time reboot or reboot immediately
Software Functions	
Capacity	128 Users Maximum
Management mode	English/Chinese WEB remote management
Status	System/Wireless/Real-time traffic
Network	DHCP/Static IP/PPPOE
Wireless	Wireless switch, SSID, encryption, Password, Wireless multimedia, Isolation, Hidden
System	Device name, system upgrade, configuration restore, backup configuration, factory reset, reboot device.

DIMENSIONS & SCHEMATIC



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