



11AX 3000Mbps Ceiling Wireless AP
XT-3000AX



Short Specification

XT-3000AX is an 11ax Wi-Fi standard Qualcomm Chipset industrial Ceiling Wireless Access Point based on IPQ5018 chipset

Combined 3000Mbps Wi-Fi speed over 2 radios: 2.4GHz (600Mbps 11ax 2*2) + 5GHz (2400Mbps 2*2), equipped Gigabit WAN & LAN ports, support MU-MIMO and DL/UL-OFDMA modulation, faster Ethernet data rate with 128 end users, this multiple users can upload or download multiple packets in 160MHz bandwidth at the same time, narrower subcarrier spacing and longer symbol time, improved the stability and data processing efficiency, publicly to be used in high density access environment such as university campus, concert venue, gymnasium, etc.

Main Features:

Comply with 11AX 2x2 MU-MIMO, 160MHz, dual band with 3000Mbps data rate;


High power up to 24dBi, more wireless range;

Support Seamless roaming, TWT, OFDM...

128+ end users

Hardware Specification

| | | | | | | |
|---------------------|---|------|---------|------|---------|--|
| Chipset | IPQ5018+QCN6122 | | | | | |
| Standard | 802.11ax/ac/b/g/n | | | | | |
| Flash | SPI NOR 8MB (1.8v) + NAND 128MB | | | | | |
| DDR3L | 512MB | | | | | |
| 2.4G Frequency | 2.4GHz - 2.484GHz | | | | | |
| 2.4G Wi-Fi standard | 802.11b/g/n/ax | | | | | |
| 5.8G Frequency | 4.9-5.9G | | | | | |
| 5.8G Wi-Fi Standard | 802.11 a/n/ac/ax | | | | | |
| Interface | 1 * 10/100 /1000Mbps RJ45 WAN Port and PoE port; | | | | | |
| | 1* Gigabit Console port; | | | | | |
| | 1 * Reset button, press 10 seconds to revert to default setting | | | | | |
| Antenna | Build in 4*4dBi dual band MIMO Antenna | | | | | |
| Data Rate | 3000Mbps (2.4G 600Mbps, 5.8G 2400Mbps) | | | | | |
| End Users | 128+ | | | | | |
| 2.4GHz RF Power | 802.11b | 11M | 24±2dBm | 1M | 24±2dBm | |
| | 802.11g | 54M | 21±2dBm | 6M | 23±2dBm | |
| | 802.11n HT20 | MCS7 | 20±2dBm | MCS0 | 22±2dBm | |
| | 802.11n HT40 | MCS7 | 20±2dBm | MCS0 | 22±2dBm | |

| | | | | | | |
|----------------------------|--|-------|---------|------|---------|--|
| | 802.11ax HE20 | MCS11 | 18±2dBm | MCS0 | 22±2dBm | |
| | 802.11ax HE40 | MCS11 | 18±2dBm | MCS0 | 22±2dBm | |
| 5.8GHz RF Power | 802.11a | 54M | 19±2dBm | 6M | 22±2dBm | |
| | 802.11n HT20 | MCS7 | 18±2dBm | MCS0 | 21±2dBm | |
| | 802.11n HT40 | MCS7 | 18±2dBm | MCS0 | 21±2dBm | |
| | 802.11ac VHT80 | MCS9 | 17±2dBm | MCS0 | 21±2dBm | |
| | 802.11ax HE80 | MCS11 | 17±2dBm | MCS0 | 21±2dBm | |
| | 802.11ax HE160 | MCS11 | 17±2dBm | MCS0 | 21±2dBm | |
| 2.4GHz Receive Sensitivity | 802.11b | 11M | -85dBm | 1M | -90dBm | |
| | 802.11g | 54M | -72dBm | 6M | -90dBm | |
| | 802.11n HT20 | MCS7 | -70dBm | MCS0 | -87dBm | |
| | 802.11n HT40 | MCS7 | -68dBm | MCS0 | -85dBm | |
| | 802.11ax HE20 | MCS11 | -60dBm | MCS0 | -83dBm | |
| | 802.11ax HE40 | MCS11 | -56dBm | MCS0 | -83dBm | |
| 5.8GHz Receive Sensitivity | 802.11a | 54M | -72dBm | 6M | -92dBm | |
| | 802.11n HT20 | MCS7 | -70dBm | MCS0 | -90dBm | |
| | 802.11n HT40 | MCS7 | -68dBm | MCS0 | -88dBm | |
| | 802.11ac VHT80 | MCS9 | -58dBm | MCS0 | -85dBm | |
| | 802.11ax HE80 | MCS11 | -55dBm | MCS0 | -84dBm | |
| | 802.11ax HE160 | MCS11 | -51dBm | MCS0 | -82dBm | |
| 2.4G EVM | 802.11b:≤-10 dB; 802.11g: ≤-25 dB; 802.11n:≤-28 dB; 802.11ax:≤-35 dB | | | | | |
| 5G EVM | 802.11a:≤-25 dB; 802.11n: ≤-28 dB; 802.11ac:≤-32 dB; 802.11ax:≤-35 dB | | | | | |
| DC | 12V  1.5A | | | | | |
| PoE | 48V (IEEE 802.3af) | | | | | |
| LED light | Sys, 2.4G, 5.8G | | | | | |
| Power Consumption | ≤ 16W | | | | | |
| Size | 186*186*35.8mm | | | | | |
| Working Temperature | -10°C to 45°C | | | | | |
| Storage Temperature | -40°C to 70°C | | | | | |
| Humidity | 5% - 95% (no condensation) | | | | | |

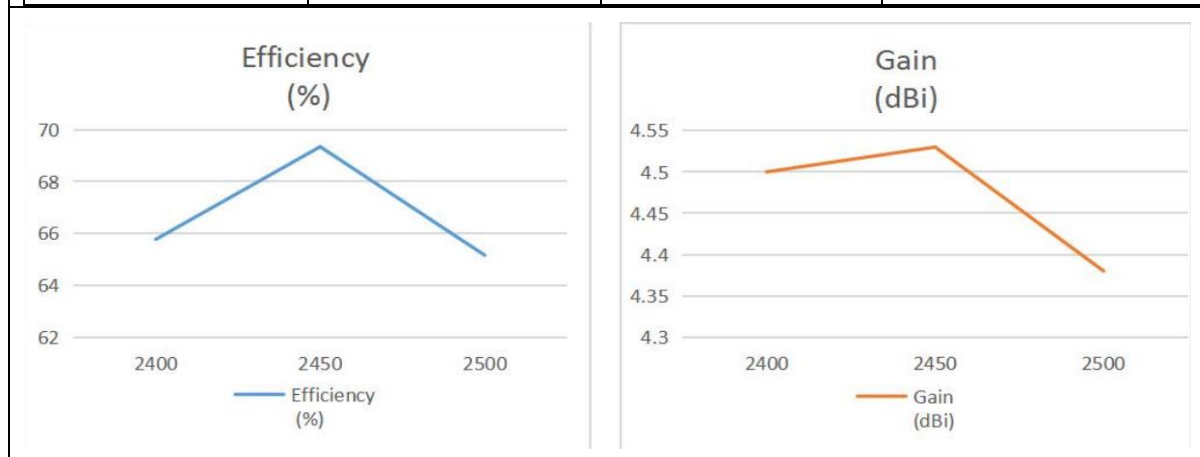
Firmware Specification

| | |
|--------------------|--|
| Working Mode | Gateway, AP |
| Wireless Functions | Multiple SSID functions: 2.4GHz: 4; 5.8GHz: 4. |
| | Support SSID hidden |
| | Support seamless roaming |
| | Support 5G Prior for a faster Ethernet. |
| | 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. |
| | Support user quantity limited, Max 64 users to access each band. |

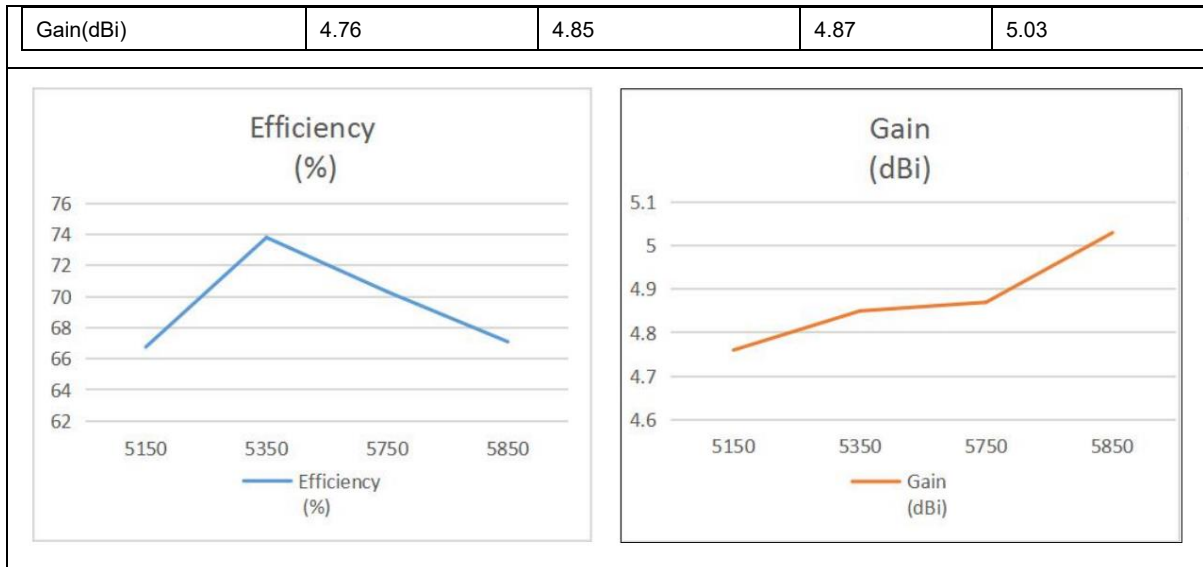
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|---------------------|---|
| Networking Function | VLAN settings |
| | Cloud access support in gateway mode |
| Device Management | Back-up the configuration |
| | Restore the configuration |
| | Reset to factory default |
| | Reboot the device: including time reboot or reboot immediately |
| | Admin management password modify |
| | Firmware upgrade |
| | System log |
| | Support firmware GUI web management, AC controller management, remote management and cloud management |
| Protocols | IPv4 |

Antenna Specification

| | | | |
|------------------------------|---------------------|-------|-------|
| Frequency Range | 2.4GHz | | |
| Impedance | 50 Ohms nominal | | |
| Gain | 5dBi | | |
| Radiation | Omni | | |
| Polarization | Linear Polarization | | |
| Efficiency and Gain (2.4GHz) | | | |
| Frequency | 2400 | 2450 | 2500 |
| Efficiency (%) | 65.77 | 69.34 | 65.16 |
| Gain (dBi) | 4.5 | 4.53 | 4.38 |



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|------------------------------|-----------------------|-------|-------|-------|
| Frequency Range | 5.8GHz (5150~5850MHz) | | | |
| Impedance | 50 Ohms | | | |
| Gain | 5dBi | | | |
| Radiation | Omni | | | |
| Polarization | Linear Polarization | | | |
| Efficiency and Gain (5.8GHz) | | | | |
| Frequency | 5150 | 5350 | 5750 | 5850 |
| Efficiency(%) | 66.75 | 73.79 | 70.31 | 67.09 |



Accessory

| | |
|----------------------|---|
| AP | 1 |
| LAN cable | 1 |
| Mounting Accessories | 1 |
| Gift Box | 1 |

Throughput Testing:

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|---|
| Two radios separately: 2.4G Throughput: ≥ 420 Mbps; 5.8G Throughput: ≥ 840 Mbps |
| Two radio concurrent testing: 2.4G Throughput: 331.851Mbps; 5.8G Throughput: 610.534Mbps |