

70XX Controllers

PERFORMANCE AND CAPACITY

FEATURES	7005	7008	7010	7024	7030
Maximum campus AP licenses	16	16	32	32	64
Maximum Remote AP licenses	16	16	32	32	64
Maximum concurrent users/devices	1,024	1,024	2,048	2,048	4,096
Maximum VLANs	4,094	4,094	4,094	4,094	4,094
Active firewall sessions	16,384	16,384	32,768	32,768	65,536
Concurrent GRE tunnels	256	256	512	512	1,024
Concurrent IPsec sessions	512	512	1,024	1,024	2,048
Mobility Access Switch tunneled-node ports	512	512	1,024	1,024	2,048
Firewall throughput	2 Gbps	2 Gbps	4 Gbps	4 Gbps	8 Gbps
Encrypted throughput (3DES, AES-CBC)	1.2 Gbps	1.2 Gbps	2.4 Gbps	2.4 Gbps	2.4 Gbps
Encrypted throughput (AES-CCM)	1.6 Gbps	1.6 Gbps	3.6 Gbps	3.6 Gbps	4.4 Gbps

INTERFACES AND INDICATORS

FEATURES	7005	7008	7010	7024	7030
Form factor/footprint	Compact	Compact	1 rack unit	1 rack unit	1 rack unit
Auto-negotiating 10/100/1000BASE-T	4	8	16	24	8 (combo)
Gigabit Ethernet ports (GBIC or SFP)	N/A	N/A	2 SFP	2 SFP+	8 (combo)
USB 2.0	Yes (1)	Yes (2)	Yes (2)	Yes (1)	Yes (1)
Management/status LEDs	Yes	Yes	Yes	Yes	Yes
LINK/ACT and status LEDs	No	No	No	Yes	Yes
LCD panel and navigation buttons	No	No	Yes	Yes	Yes
Console port	Yes (micro USB/RJ-45)	Yes (micro USB/RJ-45)	Yes (micro USB/RJ-45)	Yes (micro USB/RJ-45)	Yes (micro USB/RJ-45)
Out-of-band management port	No	No	Yes	Yes	Yes

PHYSICAL

FEATURES	7005	7008	7010	7024	7030
Dimensions (H x W x D)	4.1 cm x 20 cm x 20 cm (1.6" x 7.9" x 7.9")	4.2 cm x 20.32 cm x 20.32 cm (1.65" x 8.0" x 8.0")	4.4 cm x 31.8 cm x 33.7 cm (1.7" x 12.5" x 13.3")	4.37 cm x 44.2 cm x 31.3 cm (1.72" x 17.4" x 12.32")	4.4 cm x 30.5 cm x 21.1 cm (1.7" x 12" x 8.3")
Weight	0.92 kg (2.03 lbs)	1.0 kg (2.2 lbs)	3.4 kg (7.5 lbs)	5.127 kg (11.3 lbs)	2.06 kg (4.54 lbs)
MTBF (hours, @ 25C)	323,896	300,000	232,843	311,901	390,679

ENVIRONMENTAL RANGE

FEATURES	7005	7008	7010	7024	7030
Operating temperature	0° C to 40° C	0° C to 40° C	0° C to 40° C	0° C to 40° C	0° C to 40° C
Storage temperature	-40° C to 70° C	-40° C to 70° C	-40° C to 70° C	-40° C to 70° C	-40° C to 70° C
Humidity/storage humidity	10% to 95%, NC	10% to 95%, NC	10% to 95%, NC	10% to 95%, NC	10% to 95%, NC
Operating altitude	10,000 feet	10,000 feet	10,000 feet	10,000 feet	10,000 feet
Acoustic noise ¹	0 dBA (fanless)	0 dBA (fanless)	39.8 – 58.6 dBA	34.3 – 71.2 dBA	29.1 – 57.4 dBA
Maximum power consumption	16.6 W (with USB)	126 W with PoE (26 W without PoE)	190 W (with PoE)	450 W (with PoE)	55 W

REGULATORY AND SAFETY COMPLIANCE

DESCRIPTION	SPECIFICATION
Safety certifications	UL 60950-1 Second Edition CAN/CSA-C22.2 No. 60950-1 Second Edition EN 60950-1 Second Edition EN 60950:2005 IEC 60950-1 Second Edition NOM (obtained by partners and distributors)
Electromagnetic emissions certifications	FCC Part 15 Class B CE AS/NZS CISPR22 Class B CISPR22 Class B EN55022 Class B ICES-003 Class B VCCI Class B EN61000-3-2 EN61000-3-3 EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-11, AS/NZS 3548 KN22 Class B KCC CNS13438 Class B EN55024/CISPR24 KN24 Industry Canada Class B CE mark, cTUVus, CB, C-tick, Anatel, NOM, MIC
Telco	Common Language Equipment Identifier (CLEI) Code
Regulatory SKU information	ARCNO1014(7005) ARCNO103(7010) ARCNO7024(7024) ARCNO7030(7030)

72XX Controllers

PERFORMANCE AND CAPACITY

7205

- Maximum APs (licenses): 256
- Maximum RAPs: 256
- Maximum concurrent devices: 8,192
- VLANs: 2,048
- Concurrent GRE tunnels (system BSSIDs): 8,192
- Concurrent tunneled ports: 4,096
- Concurrent IPsec sessions: 4,096
- Concurrent SSL fallback sessions: 4,096
- Active firewall sessions (concurrent sessions): 1,000,000
- Wired throughput (large packets): 12 Gbps

7210

- Maximum APs (licenses): 512
- Maximum RAPs: 512
- Maximum concurrent devices: 16,384
- VLANs: 4,094
- Concurrent GRE tunnels (system BSSIDs): 8,192
- Concurrent tunneled ports: 8,192
- Concurrent IPsec sessions: 16,384
- Concurrent SSL fallback sessions: 8,192
- Active firewall sessions (concurrent sessions): 2,015,291
- Wired throughput (large packets): 20 Gbps
- Hot-swappable redundant power supplies and fan tray with multiple fans

7220

- Maximum APs (licenses): 1,024
- Maximum RAPs: 1,024
- Maximum concurrent devices: 24,576
- VLANs: 4,096
- Concurrent GRE tunnels (system BSSIDs): 16,384
- Concurrent tunneled ports: 12,288
- Concurrent IPsec sessions: 24,576
- Concurrent SSL fallback sessions: 8,192
- Active firewall sessions (concurrent sessions): 2,015,291
- Wired throughput (large packets): 40 Gbps
- Hot-swappable redundant power supplies and fan tray with multiple fans

7240

- Maximum APs (licenses): 2,048
- Maximum RAPs: 2,048
- Maximum concurrent devices: 32,768
- VLANs: 4,096
- Concurrent GRE tunnels (system BSSIDs): 32,768
- Concurrent tunneled ports: 16,384
- Concurrent IPsec sessions: 32,768
- Concurrent SSL fallback sessions: 8,192
- Active firewall sessions (concurrent sessions): 2,015,291
- Wired throughput (large packets): 40 Gbps
- Hot-swappable redundant power supplies and fan tray with multiple fans

ENVIRONMENTAL

Operating temperature range: 0° C to 40° C

Operating humidity: 5% to 95% non-condensing

Storage temperature range: -40° C to 70° C

Storage humidity: 5% to 95%, non-condensing

Operating altitude: 10,000 feet

Acoustic noise² (with AC power supply):

- 7205 49.0 dBA
- 7210 46.9 dBA
- 7220 46.9 dBA
- 7240 54.7 dBA

REGULATORY SKU INFORMATION

7205: ARCN7205

7205-US: ARCN7205

7210: ARCN0100

7210-US: ARCN0100

7220: ARCN0101

7220-US: ARCN0101

7240: ARCN0102

7240-US: ARCN0102

DIMENSIONS

(H) 4.4 cm x (W) 44.5 cm x (D) 44.5 cm (1.75" x 17.5" x 17.5")

Weight (with one AC power supply installed) 7.45 kg (16.43 lbs)

INTERFACES AND INDICATORS

Four 10GBASE-X (SFP+) ports

Two dual-media ports (1000BASE-X or 10/100/1000BASE-T)

One USB 2.0

Console (RS-232) RJ-45 or mini-USB

LINK/ACT and status LEDs

Management/status LEDs

LCD panel and navigation buttons

Expansion slot (reserved for future use)

POWER SUPPLY OPTIONS

350-watt AC power supply

- AC input voltage: 100 VAC to 240 VAC
- AC input current: 5-2.5A
- AC input frequency: 50-60 Hz
- Weight: 2.8 lbs (1.3 kg)

350-watt DC power supply

- DC input voltage: -36 VDC to -72 VDC
- DC input current: 9A
- Weight: 3.2 lbs (1.44 kg)

Maximum power consumption

- 7205: 75.2 watts
- 7210: 110 watts
- 7220: 125 watts
- 7240: 165 watts

REGULATORY AND SAFETY COMPLIANCE

FCC Part 15 Class A CE

Industry Canada Class A

VCCI Class A (Japan)

EN 55022 Class A (CISPR 22 Class A), EN 61000-3,

EN 61000-4-2, EN 61000-4-3, EN 61000-4-4,

EN 61000-4-5, EN 61000-4-6, EN 61000-4-8,

EN 61000-4-11, EN 55024, AS/NZS 3548

UL 60950, EN60950

CAN/CSA 22.2 #60950

CE mark, cTUVus, CB, C-tick, Anatel, NOM, MIC

WARRANTY

Hardware: 1 year parts/labor*

Software: 90 days*

* Extended with support contract.

Access Points

Indoor Wireless:

AP-103



Low-density 802.11n

- Two integrated dual-band down-tilt omni-directional antennas
- For low-density Wi-Fi environments
- 2x2 MIMO, two spatial streams, up to 300 Mbps
- 2.4- and 5-GHz radios
- Two internal antennas per radio
- Mounts on ceiling or wall

AP-204



Most popular 802.11ac

- Two combined, diplexed external RP-SMA antenna connectors
- Top performance in medium-density environments
- 2x2 MIMO, two spatial streams, up to 867 Mbps
- 2.4- and 5-GHz radios
- Internal and external antenna options
- Mounts on ceiling or wall

AP-205



Most popular 802.11ac

- Four integrated omni-directional downtilt antennas
- Top performance in medium-density environments
- 2x2 MIMO, two spatial streams, up to 867 Mbps
- 2.4- and 5-GHz radios
- Internal and external antenna options
- Mounts on ceiling or wall

AP-207



Low-cost 802.11ac

- Two integrated omni-directional downtilt dualband antennas
- 2x2 MIMO, two spatial streams, up to 867 Mbps
- 2.4- and 5-GHz radios
- Internal and external antenna options
- Mount on wall or ceiling

AP-214



High-performance 802.11ac

- Three combined, diplexed (dual-band) external RP-SMA antenna connectors
- For medium-density Wi-Fi environments
- 3x3 MIMO, three spatial streams, up to 1.3 Gbps
- 2.4- and 5-GHz radios
- Internal and external antenna options
- Mounts on ceiling or wall

AP-215



High-performance 802.11ac

- Six integrated omni-directional downtilt antennas
- For medium-density Wi-Fi environments
- 3x3 MIMO, three spatial streams, up to 1.3 Gbps
- 2.4- and 5-GHz radios
- Internal and external antenna options
- Mounts on ceiling or wall

AP-224



Top performing 802.11ac

- Three combined, diplexed external antenna connectors
- For extremely high-density client environments
- 3x3 MIMO, three spatial streams, up to 1.3 Gbps
- 2.4- and 5-GHz radios
- Internal and external antenna options
- Mounts on ceiling or wall

AP-225



Top performing 802.11ac

- Three integrated omni-directional downtilt antennas
- For extremely high-density client environments
- 3x3 MIMO, three spatial streams, up to 1.3 Gbps
- 2.4- and 5-GHz radios
- Internal and external antenna options
- Mounts on ceiling or wall

AP-228



802.11ac for Rugged Indoor Environments

- Three combined, diplexed external antenna connectors
- 3x3 MIMO, three spatial streams, up to 1.3 Mbps
- 2.4- and 5-GHz radios
- Six connectors for external antennas
- Mounts on ceiling or wall

AP-304



Entry-level 802.11ac Wave 2

- Three dual-band RP-SMA connectors for external antennas
- 3x3 MIMO, four spatial streams, up to 1,300 Mbps
- 2x2 MIMO, two spatial streams, up to 400 Mbps
- Internal and external antenna options
- Mount on wall or ceiling

AP-305



Entry-level 802.11ac Wave 2

- Three integrated omni-directional downtilt dualband antennas
- 3x3 MIMO, four spatial streams, up to 1,300 Mbps
- 2x2 MIMO, two spatial streams, up to 400 Mbps
- Internal and external antenna options
- Mount on wall or ceiling

AP-314



Popular 802.11ac Wave 2

- Four dual-band RP-SMA connectors for external antennas
- 4x4, 4 spatial streams Multi-user MIMO in 5GHz, up to 1,733 Mbps
- 2x2, 2 spatial streams SU-MIMO in 2.4GHz, up to 400 Mbps
- Built-in BLE radio
- Internal and external antennas
- Mount on wall or ceiling

AP-315



Popular 802.11ac Wave 2

- Four integrated omni-directional downtilt dual-band antennas
- 4x4, 4 spatial streams Multi-user MIMO in 5GHz, up to 1,733 Mbps
- 2x2, 2 spatial streams SU-MIMO in 2.4GHz, up to 400 Mbps
- Built-in BLE radio
- Internal and external antennas
- Mount on wall or ceiling

AP-324



High performance 802.11ac Wave 2

- Four combined, diplexed (dual-band) external RP-SMA antenna connectors
- Top performance and efficiency in high density client environments
- 4x4 MIMO, four spatial streams, up to 1,733 Mbps
- Multi-user MIMO
- 2.4- and 5GHz radios
- Built-in BLE radio
- Internal and external antenna options

AP-325



High performance 802.11ac Wave 2

- Eight integrated omni-directional downtilt antennas
- Top performance and efficiency in high density client environments
- 4x4 MIMO, four spatial streams, up to 1,733 Mbps
- Multi-user MIMO
- 2.4- and 5GHz radios
- Built-in BLE radio
- Internal and external antenna options

AP-334



Multi-gigabit 802.11ac Wave 2 with HPE Smart Rate

- Four combined, diplexed (dual-band) external RP-SMA antenna connectors
- Provide fastest gigabit data speeds and superb user experience for mobile devices and applications
- HPE Smart Rate uplink port that scales up to 5Gbps
- 4x4 MIMO, four spatial streams up to 1,733Mbps
- Multi-user MIMO
- 2.4- and 5GHz radios
- Built-in Bluetooth Low Energy (BLE) radio
- Internal and external antenna options
- Mount on ceiling or wall

AP-335



Multi-gigabit 802.11ac Wave 2 with HPE Smart Rate

- Eight integrated omni-directional downtilt antennas
- Provide fastest gigabit data speeds and superb user experience for mobile devices and applications
- HPE Smart Rate uplink port that scales up to 5Gbps
- 4x4 MIMO, four spatial streams up to 1,733Mbps
- Multi-user MIMO
- 2.4- and 5GHz radios
- Built-in Bluetooth Low Energy (BLE) radio
- Internal and external antenna options
- Mount on ceiling or wall

Access Points

Desk Stand and Wall Plate:

AP-103H



Controller-Managed, Wall-Mount 802.11n

- 2x2 MIMO, two spatial streams, up to 300 Mbps
- 2.4- and 5-GHz radios
- Two integrated dual-band omni-directional antennas
- Two ports to connect wired devices
- Mounts on wall-box

AP-205H



802.11ac for Hospitality and Branch

- 2x2 MIMO, two spatial streams, up to 867 Mbps
- 2.4- and 5-GHz radios
- Four integrated semi-directional antennas
- Three ports to connect wired devices
- Optional 3G/4G WAN connection
- Sits on your desk or mounts on wall-box

Outdoor Wireless:

AP-274



Outdoor 802.11ac

- Three integrated omni-directional antennas
- 2.4- and 5-GHz radios
- 3x3 MIMO, three spatial streams, up to 1.3 Gbps
- Internal and external antenna options
- Mounts on a pole or building

AP-275



Outdoor 802.11ac

- Three external antenna connectors
- 2.4- and 5-GHz radios
- 3x3 MIMO, three spatial streams, up to 1.3 Gbps
- Internal and external antenna options
- Mounts on a pole or building

AP-277



Outdoor 802.11ac

- Three integrated 80° H x 80° V beamwidth directional antennas
- 2.4- and 5-GHz radios
- 3x3 MIMO, three spatial streams, up to 1.3 Gbps
- Internal and external antenna options
- Mounts on a pole or building

Remote Access Points

Aruba 802.11n Remote Access Points (RAPs) provide secure always-on network access to corporate enterprise resources from remote locations. Ideal for users in small branch offices and teleworkers in home offices, Aruba RAPs support wired and wireless connectivity, traffic forwarding traffic based on policy, user-centric security, and backup links over cellular networks.

Remote Access Points:

RAP-3



Telecommuter 802.11n

- One 2.4-GHz radio
- 2x2 MIMO, up to 300 Mbps
- Two ports to connect wired devices
- Optional 3G/4G WAN connection
- Sits on your desk

RAP-108 and 109



Home and branch 802.11n

- 2.4- and 5-GHz radios
- 2x2 MIMO, up to 300 Mbps
- One port to connect wired devices
- Optional 3G/4G WAN connection
- Sits on your desk

RAP-155



Branch office 802.11n

- 2.4- and 5-GHz radios
- 3x3 MIMO, three spatial streams, up to 450 Mbps, 100 Mbps encrypted throughput
- Four ports to connect wired devices (optional power-over-Ethernet on two ports)
- Optional 3G/4G WAN connection
- Sits on your desk