



Access Networks C670

Access Networks C670 Unleashed Wi-Fi 7 Indoor Access Point

Ultra-high-definition video, virtual reality, IoT devices, and an ever-growing number of connected gadgets place unprecedented demands on networks. In crowded environments, traditional Wi-Fi often falters, struggling with interference and congestion.

Access Networks C670: The New Benchmark for Wi-Fi 7 In-Room Connectivity

The Access Networks C670 is a wall-mounted Wi-Fi 7 tri-band concurrent indoor AP that delivers 6 spatial streams (2x2:2 in 2.4GHz, 5GHz, and 6GHz). With Multi-Link Operation (MLO), Preamble Puncturing, 4K QAM, and 320MHz channels, it achieves a combined data rate up to 9.34 Gbps, ensuring exceptional performance in any environment.

A 5 Gbps Ethernet port ensures smooth, high-speed backhaul performance, while four 2.5 Gbps (two PoE-enabled) ports power in-room devices like IP phones, security cameras, and smart IoT endpoints. This makes the C670 a true converged edge device; delivering both wireless and wired connectivity in a single, elegant and easy to deploy wall-mounted unit.

Key Highlights

- ✓ AI-Driven Wi-Fi 7 innovation: Faster speeds, lower latency, higher capacity
- ✓ Wall-mounted simplicity: Ideal for hotel rooms, student housing, and MDUs
- ✓ Wired + wireless connectivity: 5GbE uplink and 4x 2.5GbE ports for connected devices
- ✓ Secure design: TPM 2.0 and Secure Boot safeguard the edge
- ✓ Advanced RF Technology: BeamFlex+, SmartMesh, SmartRoam, ChannelFly®

The Access Networks C670 brings next-generation Wi-Fi 7 performance and in-room connectivity together, delivering unmatched experiences for residents, guests, and employees alike

About Access Networks Purpose-Driven Networks

Access Networks takes a purpose-driven approach to networking, delivering not just connectivity, but measurable business outcomes and exceptional user experiences. Our solutions are built to solve real-world challenges, from keeping students connected on campus to enabling seamless guest experience in hospitality and MDUs and mission-critical enterprise operations.

Benefits



Wi-Fi 7 Wired & Wireless In-Room Connectivity

Provides exceptional end-user experience expanding the range of use cases for Wi-Fi 7 including guest rooms, MDU apartments, meeting rooms. Features 5GbE uplink and 4x 2.5GbE ports (two PoE enabled) for connected devices.



BeamFlex+ Adaptive Antenna Technology

BeamFlex+ patented smart antennas boost coverage, speed, and capacity—delivering stronger signals, fewer errors, and higher throughput for any client. They also enhance MIMO performance and maximize spatial multiplexing.

Whether you are deploying ten or ten thousand access points, the C670 is also easy to manage through multiple management options including including ARCC Cloud-Based Controller and OvrC®.



OvrC® Integration for Unleashed Access Networks Access Points

OvrC is a free, cloud-based remote management platform created by Snap One that empowers professionals to configure, manage, and troubleshoot devices across a network seamlessly. By combining high-performance, reliable hardware with the power of OvrC, the Access Networks® Unleashed Access Points provide a comprehensive solution for your networking needs. Enjoy streamlined setup, easy scalability, enhanced remote management capabilities, and more.

Access Networks Unleashed Access Points are also now available through the client OvrC Connect app.

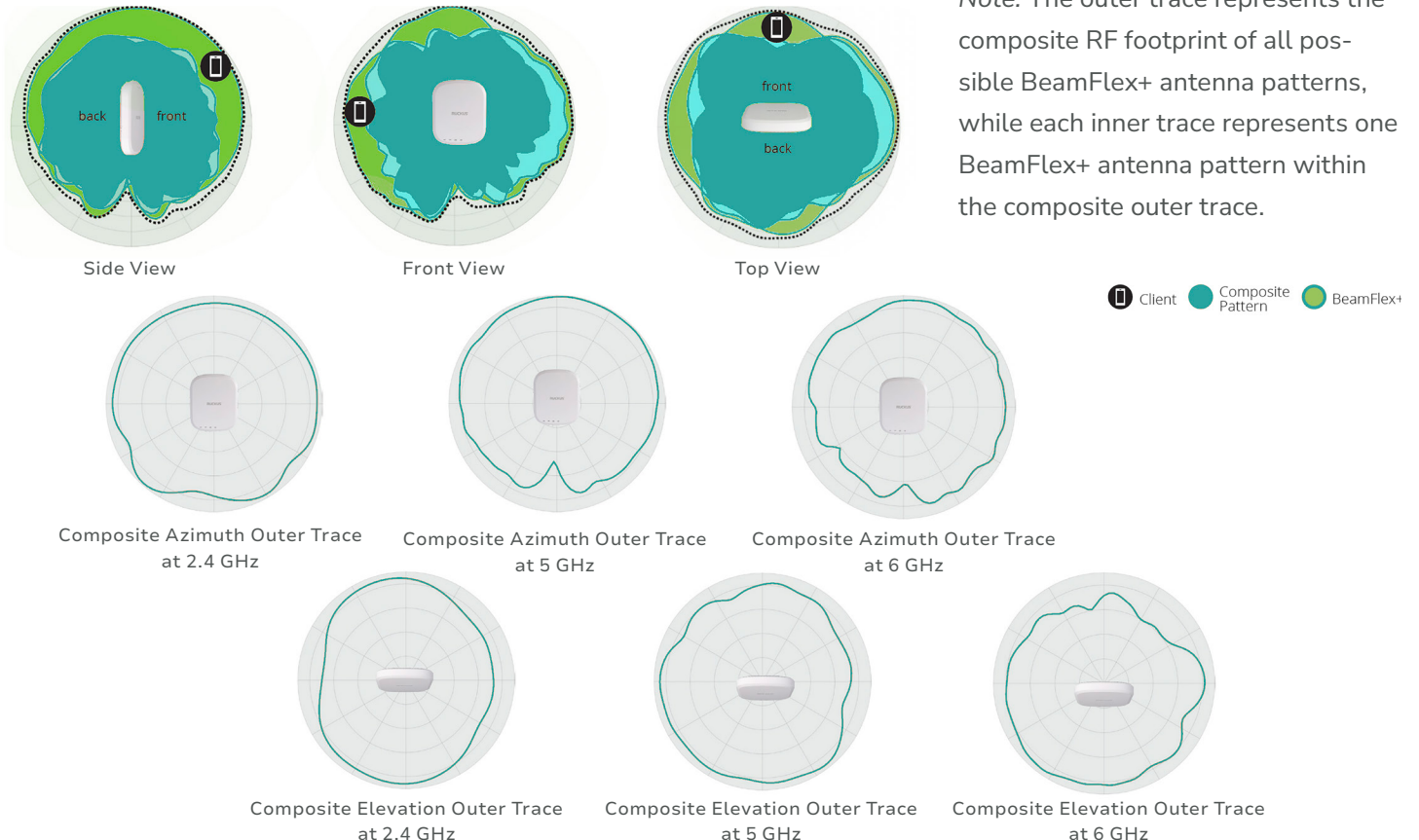
BeamFlex+ Adaptive Antenna Technology

The Access Networks C670 comes with BeamFlex+® adaptive antennas, enabling the AP to dynamically select from more than 4,000 possible antenna patterns in real-time. This adaptive capability optimizes the signal path for each connected device to deliver the strongest possible link quality.

Key benefits include

- **Improved Wi-Fi coverage:** Focused signal energy extends range and enhances connectivity through obstacles and reflections.
- **Reduced RF interference:** Intelligent pattern selection minimizes interference from neighboring devices and access points.

In contrast to traditional omni-directional antennas that radiate energy uniformly in all directions—often oversaturating the environment—BeamFlex+ adaptively directs radio energy per-device on a packet by-packet basis. This approach optimizes Wi-Fi efficiency and capacity in high device density environments such as hotels, apartments, and student housing. BeamFlex+ operates independently of client capability, ensuring performance improvements even for legacy Wi-Fi devices that do not support modern beamforming protocols.



Specifications

WI-FI	
Wi-Fi Standards	• IEEE 802/11a/b/g/n/ac/ax/be, Wi-Fi 7 [†]
Supported Rates	• 802.11be: 4 to 5765 Mbps • 802.11ax: 4 to 4804 Mbps • 802.11ac: 6.5 to 866 Mbps • 802.11n: 6.5 to 300 Mbps • 802.11a/g: 6 to 54 Mbps • 802.11b: 1 to 11 Mbps
Supported Channels	• 2.4GHz: 1-13 • 5GHz: 36-64, 100-144, 149-165 • 6GHz: 1-233
MIMO	• 2x2 SU-MIMO in tri-band mode • 2x2 MU-MIMO in tri-band mode
Spatial Streams	• 2 in tri-band mode
Radio Chains and Streams	• 2x2:2 in all 3 bands
Channelization	• 20, 40, 80, 160, 320 MHz
Security	• WEP, WPA, WPA-PSK, WPA2, WPA2-PSK, WPA3, WPA3-SAE, OWE, PMF (802.11w), Dynamic PSK, DPSK3 • WIPS/WIDS, TPM 2.0, Secure Boot

RF	
Antenna Type	• BeamFlex+ adaptive antennas with polarization diversity • Adaptive antenna that provides 4,000+ unique antenna patterns per band
Antenna Gain (max)	• Up to 3dBi
Peak Transmit Power (Tx port/chain + Combining gain)	• 2.4GHz: 19dBm (2x2) • 5GHz: 22dBm (2x2) • 6GHz: 22dBm (2x2)
Frequency Bands	• ISM (2.4-2.4835 GHz) • U-NII-1 (5.15-5.25 GHz) • U-NII-2A (5.25-5.35 GHz) • U-NII-2C (5.47-5.725 GHz) • U-NII-3 (5.725-5.85 GHz) • U-NII-5 (5.925-6.425 GHz) • U-NII-6 (6.425-6.525 GHz) • U-NII-7 (6.525-6.875 GHz) • U-NII-8 (6.875-7.125GHz)

2.4GHZ RECEIVE SENSITIVITY (dBm)							
HT20		HT40		VHT20		VHT40	
MCS0	MCS7	MCS0	MCS7	MCS0	MCS7	MCS0	MCS7
-97	-79	-94	-76	-97	-79	-94	-76
HE20/EHT20				HE40/EHT40			
MCS0	MCS7	MCS9	MCS11	MCS0	MCS7	MCS9	MCS11
-97	-79	-70	-68	-94	-76	-67	-61

5GHZ RECEIVE SENSITIVITY (dBm) in 2x2 tri-band mode											
HT20/VHT20				HT40/VHT40				VHT80			
MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9	MCS0	MCS7	MCS8	MCS9
-95	-77	-74	-70	-92	-74	-70	-67	-89	-70	-67	-64
HE20/EHT20			HE40/EHT40			HE80/EHT80			HE160/EHT160		
MCS0	MCS9	MCS13	MCS0	MCS9	MCS13	MCS0	MCS9	MCS13	MCS0	MCS9	MCS13
-95	-70	-59	-92	-67	-57	-89	-64	-55	-86	-61	-52

6GHZ RECEIVE SENSITIVITY (dBm)								
HE20/EHT20			HE40/EHT40			HE80/EHT80		
MCS0	MCS9	MCS13	MCS0	MCS9	MCS13	MCS0	MCS9	MCS13
-95	-71	-58	-92	-68	-56	-89	-65	-53
HE160/EHT160					EHT320			
MCS0	MCS9	MCS11	MCS13	MCS0	MCS9	MCS11	MCS13	
-86	-62	-55	-50	-83	-59	-52	-47	

2.4GHZ TX POWER TARGET (PER CHAIN)	
Rate	Pout (dBm)
MCS0, HT20	16
MCS7, HT20	15
MCS9, VHT20	14
MCS11, HE40	13
MCS13, EHT40	12

5GHZ TX POWER TARGET (PER CHAIN)				
Rate	Pout (dBm)			
	20 MHz	40 MHz	80 MHz	160 MHz
MCS0	19	19	19	19
MCS7	15	14.5	14	13.5
MCS9	14	13.5	13	12
MCS11	13	12.5	12	11
MCS13	12	11.5	11	9

6GHZ TX POWER TARGET (PER CHAIN)					
Rate	Pout (dBm)				
	20 MHz	40 MHz	80 MHz	160 MHz	320 MHz
MCS0, HT40	19	19	19	18	18
MCS7, HT40	14	13	13	12	11
MCS9, VHT80	12	11.5	11.5	11	10
MCS11, HE160	11	10.5	10	9	8
MCS13, EHT320	10	9.5	9	8	6

Specifications

POWER CONSUMPTION			
Mode	Max Power Consumption	System Configuration	Wi-Fi Radios
DC Power	48.55 W	• 5Gbps Ethernet Enabled • 4x 2.5 Gbps LAN Ethernet Enabled • 2 IoT Radios Enabled • PoE out (1xAT OR 2xAF)	2.4GHz (2x2) Tx 16dBm 5GHz (2x2) Tx 19dBm 6GHz (2x2) Tx 19dBm
802.3bt6 PoH, uPoE	45.74 W Avg LLDP Request: 51 W	• 5Gbps Ethernet Enabled • 4x 2.5 Gbps LAN Ethernet Enabled • 2 IoT Radios Enabled • PoE Out (1xAT OR 2xAF)	2.4GHz (2x2) Tx 16dBm 5GHz (2x2) Tx 19dBm 6GHz (2x2) Tx 19dBm
802.3at	25.5W	• 5Gbps Ethernet Enabled • 4x 2.5 Gbps LAN Ethernet Enabled • 2 IoT Radios Enabled • No PoE out	2.4GHz (2x2) Tx 16dBm 5GHz (2x2) Tx 19dBm 6GHz (2x2) Tx 19dBm

PERFORMANCE AND CAPACITY	
Peak PHY Rates	• 2.4GHz: 689 Mbps • 5GHz: 2882 Mbps • 6GHz: 5765 Mbps
Client Capacity	• Up to 768 clients per AP
SSID	• Up to 36 per AP

ACCESS NETWORKS RADIO MANAGEMENT	
Antenna Optimization	• BeamFlex+ • Polarization Diversity with Maximal Ratio Combining (PD- MRC)
Wi-Fi Channel Management	• ChannelFly • Background Scan Based
Client Density Management	• Adaptive Band Balancing • Client Load Balancing • Airtime Fairness • Airtime-based WLAN Prioritization
SmartCast Quality of Service	• QoS-based scheduling, QoS Mirroring • Directed Multicast • L2/L3/L4 ACLs
Mobility	• SmartRoam
Diagnostic Tools	• Spectrum Analysis • SpeedFlex

NETWORKING	
Controller Platform Support	• ARCC • Unleashed with OvrC®
Mesh	• SmartMesh™ wireless meshing technology. Self-healing Mesh in 2.4 GHz, 5GHz, and 6GHz
IP	• IPv4, IPv6, dual-stack
VLAN	• 802.1Q (1 per BSSID or dynamic per user based on RADIUS) • VLAN Pooling • Port-based
802.1x	• Authenticator & Supplicant
Tunnel	• GRE, Soft-GRE, VXLAN
Policy Management Tools	• Application Recognition and Control • Access Control Lists • Device Fingerprinting • Rate Limiting • URL Filtering

PHYSICAL INTERFACES	
Ethernet	• 1x 100M/1/2.5/5GbE (PoE in) port • 4x 10M/100M/1/2.5GbE (up to 2xPoE out) port • Power over Ethernet In (802.3at/bt6) with Category 5e (or better) cable • Power over Ethernet Out (optional: 1xAT or 2xAF) with DC or BT6 power, CAT5e (or better) cable • LLDP support
DC Power	• 48V DC Power Jack

PHYSICAL CHARACTERISTICS	
Physical Size	• 182.6 mm (7.19 in) x 222.1 mm (8.76 in), 32 mm (1.26 in)
Weight	• 808 g (1.78 lb) with bracket
Mounting	• Wall bracket
Physical Security	• Secure bracket
Operating Temperature	• 0°C (32°F) to 40°C (104°F)
Operating Humidity	• Up to 95%, non-condensing

Specifications

CERTIFICATIONS AND COMPLIANCE

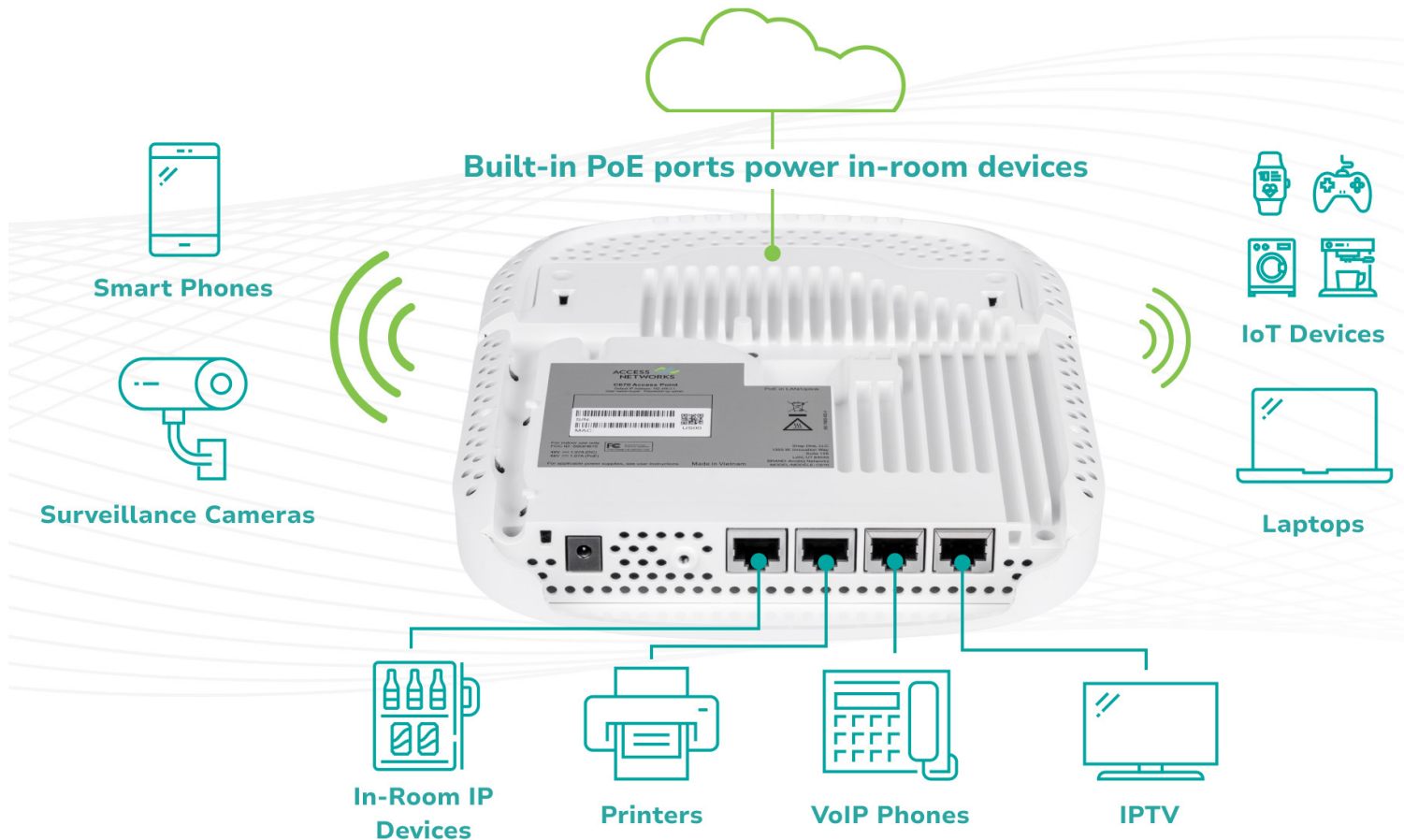
Wi-Fi Alliance¹

- Wi-Fi CERTIFIED™ a, b, g, n, ac, ax, be (Wi-Fi 6, Wi-Fi 7³)
- Passpoint®, Vantage

¹ For complete list of WFA certifications, please see Wi-Fi Alliance website.

³ Pending certification

Warranty: This Access Networks product includes a limited lifetime warranty. This warranty is described in greater detail here: <https://www.snapone.com/legal/limited-hardware-warranty>



Access Networks Unleashed Wi-Fi 7 Access Points provide the simplest way to deliver high-performance, enterprise-grade networking with the added benefits of Wi-Fi 7. With a built-in controller and full OvrC support, they're easy to set up, manage, and maintain. The Access Networks Wi-Fi 7 Access Point portfolio offers the ideal solutions for delivering reliable connectivity across a variety of indoor and outdoor environments, while minimizing the need for on-site visits.