

QORA™: A New Standard for Deterministic Wireless Networks

10 Gbps per sector. 40Km coverage range. Fiber-grade.



Wireless That Behaves Like Fiber.

QORA is RADWIN's new and innovative PtMP solution



10 Gbps

per sector



40 km

coverage range



Fiber-Grade

reliability & SLAs

Built on Wi-Fi 7 and RADWIN Proprietary Technology

The Access Network Is Being Driven By New Forces

Four forces are converging on operators at once — QORA was engineered to answer all of them.



Bandwidth Demand Keeps Climbing

Driven by video, gaming, streaming, and cloud services



Best-Effort Wireless Isn't Enough

Operators need to guarantee a service level to their subscriber, not just advertise a peak speed.



AI Is Reshaping Network Traffic

AI is driving more upstream, real-time traffic—raising demands for capacity, latency, and reliability.



Fiber Can't Move Fast Enough

Permits, trenching, and civil works make fiber expansion costly, complex, and time-consuming.

Fiber's Limits Are QORA's Opportunity

QORA meets fiber wherever it falls short, extending reach, standing in as backup, or replacing it outright when fiber isn't practical.



Service Delays

Permits, rights-of-way, and trenching can delay customer activation for months.



Economic Viability

High deployment costs and low density often make fiber uneconomical to build.



Operational Constraints

Terrain, dense cities, and fiber cuts limit reach and disrupt service.



Fiber-Grade Performance, By Design

Eight reasons operators can sell QORA with the confidence of fiber.



Capacity: Up to 5 Gbps (10 Gbps via Software Upgrade – in Roadmap)



Up to 320 MHz Channel Bandwidth with 42 Puncturing Configurations



Fiber-Grade Performance



Guaranteed Experience (GE) Through Assured Performance



Up to 40 km range, 1 Gbps sustained at 30 km



5th-Gen Beamforming, Narrower Beam, Lower Sidelobes



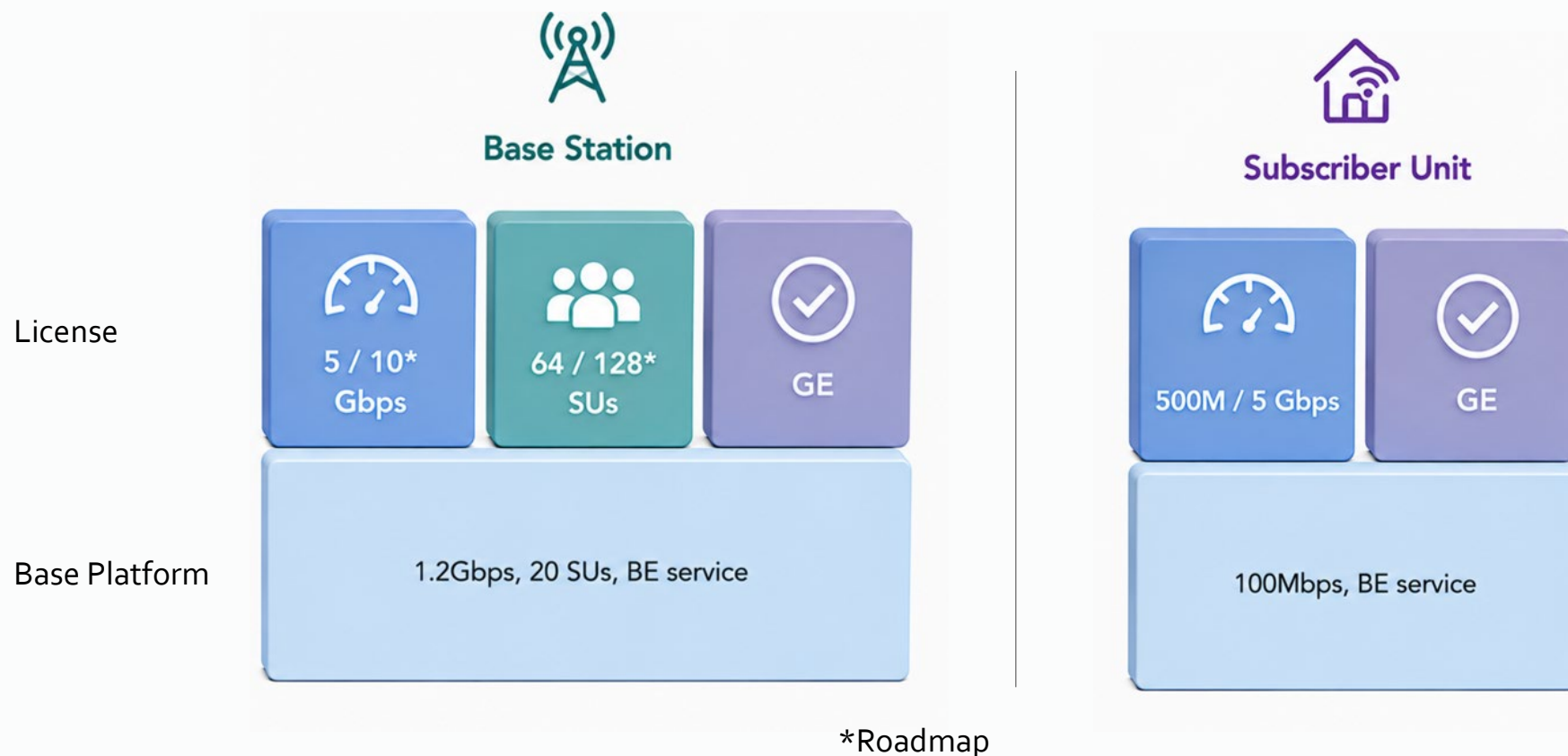
Wide Frequency Band: 4.9–7.1 GHz



Single Platform, Scalable by License

Scalable Licensing. Build QORA Your Way.

Start small. Scale when needed. Pay for what you need as the network grows.



How QORA Addresses Your Needs

Highest Capacity

10 GBPS / SECTOR

Up to 10 Gbps per sector through wider channels, higher spectral efficiency, and beamforming antennas.

Wider Coverage

40 KM RANGE

Up to 40 km range & adaptive channel bandwidth extends reach & capacity with fewer sites.

Reliable, Continuous Service

5TH-GEN BEAMFORMING

5th-gen beamforming & advanced interference mitigation deliver clean, stable links even in dense RF environments.

Deterministic Performance

GUARANTEED EXPERIENCE

SLA driven resource management and QoS control guarantee throughput & latency according to service terms.

Cost Efficiency, By Design

SMARTER TCO

Simple deployment & maintenance, scalable licensing, and compact, low-power hardware.

Security & Compliance

AES-256

AES-256 encryption, RADIUS AAA, and support for global regulatory standards.

QORA 5th Generation Beamforming

Precision beamforming. Less interference. More usable capacity from the same spectrum.



QORA Adaptive Puncturing

Don't sacrifice an entire wide channel because one small part is interfered with.
Preserve the clean spectrum and keep transmitting.



Multi-Link Operation (MLO): 2 Carriers Enabling 2X the Capacity.

- Carrier 1
- Carrier 2



Multi-Link Operation (MLO) – A New Reliability Standard

If one carrier fails, another takes over—keeping the customer connected while the rest of the network continues operating normally.

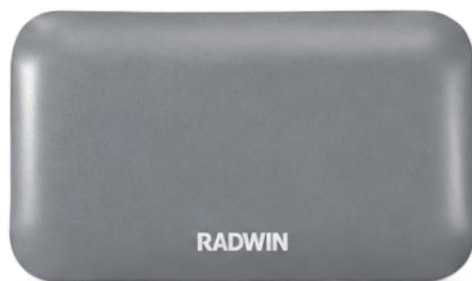


Guaranteed Experience (GE) Through Assured Performance

Guarantee performance where it matters and dynamically optimize remaining capacity for best-effort users.



Base Stations



For High Capacity
& Dense Deployments

QORA XB40 PERFORMANCE PLATFORM

- 1.2 Gbps , SW upgrade to 5 Gbps or 10*Gbps
- Single platform 4.9-7.1 GHz
- 20 SUs, upgrade to 64 SUs, or 128* SUs
- Interface: SFP+ (10Gb) , 2.5GbE PoE
- Up to 320MHz channel bandwidth with puncturing
- 5th generation beamforming antenna, 2x2x2 MIMO
- Flexible licensing
- Power consumption: <55W

* Roadmap



For Mid-Tier
Deployments

QORA XB20 ESSENTIAL PLATFORM

- 1.2 Gbps with upgrade up to 5 Gbps
- Single platform 4.9-7.1 GHz
- 20 Sus, upgrade to 64 SUs
- Interface: 4 x N-Type, SFP+ (10Gb), 2.5GbE PoE
- Up to 320MHz channel bandwidth with puncturing
- Flexible licensing
- Dimensions: 1.8 L, 1.33 Kg
- Power consumption: <25W

Subscriber Units



RU20 **INTEGRATED UNIT**

- 100 Mbps to 5 Gbps
- Single platform 4.9-7.1 GHz
- Interface: 2.5 GbE PoE
- Integrated 21dBi antenna, 2x2 MIMO
- Flexible licensing
- Dimensions: 6.1 L, 1.88 Kg
- Power consumption: <20W



RU20 **CONNECTORIZED UNIT**

- 100 Mbps to 5 Gbps
- Single platform 4.9-7.1 GHz
- Interface: 2 x N-Type, 2.5 GbE PoE
- External antenna, 2x2 MIMO
- Flexible licensing
- Dimensions: 1.8 L, 1.18 Kg
- Power consumption: <20W

QORA PtP: Backhaul That Keeps Up With Everything Downstream.

The same deterministic engineering behind QORA PtMP, now built for point-to-point, from cellular backhaul to enterprise connectivity.



Wider Range of Use Cases

From short campus links to long-haul backhaul, one platform adapts to the deployment.



New Standard for Reliability

Always-on connectivity adapts through dual-carrier operation, puncturing, and dynamic resource management.



Built for Cellular Backhaul

1588 / SyncE timing and capacity headroom purpose-built for mobile transport.



Microwave Performance, Lower Cost

Lower CapEx & Zero OpEx vs. licensed microwave, dual-band included.

QORA PtP: Specifications at-a-Glance



CAPACITY
Up to 10 Gbps



FREQUENCY BANDS
4.9 – 7.1 GHz



INTERFACE
SFP+, 2.5G PoE



CHANNEL BANDWIDTH
Up to 320 MHz with puncturing



CARRIER MODES
Dual-Carrier: bonding or redundancy



TIMING
1588, SyncE



SPECTRUM MANAGEMENT
Online spectrum & dynamic channel switching



SECURITY
AES-256



POWER CONSUMPTION
< 35 W



AVAILABILITY
Q2 2027

QORA PtP: Deployment Use Cases



Integrated flat-panel antenna



External high-gain dish antenna



Daisy-chain repeater, two antennas



Dual-carrier, integrated flat-panel



Dual-carrier, two external antennas



Redundant pair, 1+1 or 2+0 mode

Wi-Fi 7 + RADWIN Proprietary Technology, One Deterministic Standard.

10 Gbps. 40 Km. Guaranteed Experience.

Become a RADWIN Partner and get early access to QORA information, updates, and resources.

