INDOOR · WI-FI 7 TRI-BAND · CLOUD-MANAGED

Rorbit C970

Tri-band Wi-Fi 7 flagship for the densest venues — 18.6 Gbps, 10 Gigabit fibre uplink, cloud-managed.



The Rorbit C970 is built for stadiums, lecture halls, conference centres and transport hubs: tri-band Wi-Fi 7 at up to 18.6 Gbps with a 10G optical uplink and 1,536-client capacity.

Wi-Fi 7 Tri-band | 18.6 Gbps | 10G SFP+ uplink | 1536 clients | 802.3bt PoE | Mira AI built-in

18.6Gbps	1536	10G	2.4/5/6
AGGREGATE RATE	CLIENTS	SFP+ UPLINK	BANDS (GHZ)

HIGHLIGHTS

- **Wi-Fi 7 tri-band, 18.6 Gbps (BE19000)**
  2.4 + 5 + 6 GHz, MLO, 320 MHz, 4096-QAM
- **10G fibre + 10G WAN**
  1 × 10GE SFP+ · 1 × 10GE WAN · 1 × 2.5GE LAN
- **1,536 clients**
  Built for the densest venues
- **4×4 on every band**
  12 spatial streams total
- **802.3bt PoE**
  High-power PoE or DC 54 V · < 40 W
- **Zero-touch**
  Self-adopts to Rorbit — no per-unit setup

For the venues where everyone connects at once.

Tri-band Wi-Fi 7 with 4×4 on all three bands keeps thousands of devices fast in stadiums, halls and terminals — a clean 6 GHz band for the newest clients, and a 10 Gigabit fibre uplink that keeps the backhaul clear.

It adopts itself to the **Rorbit cloud** on power-up, applies policy, streams live telemetry and holds power to the local regulatory limit, with signed updates and automatic rollback.

MANAGED BY RORBIT

Zero-touch cloud adoption
Self-adopts over a cert-pinned link — no per-unit setup.

Mira AI assistant
Plain-language insight & alert triage over your fleet.

True multi-tenant
Many customers & sites, database-enforced isolation.

Unattended updates
Signed OTA with automatic rollback.

Regulatory-correct
Per-site country EIRP cap, automatically.

Multi-vendor controller
Adopt Cambium cnPilot beside your Rorbit APs.

APPLICATIONS

- ✓ Stadiums & arenas
- ✓ Lecture halls & auditoria
- ✓ Conference & exhibition
- ✓ Transport hubs
- ✓ Large retail

COMPLIANCE & ENVIRONMENT

CE **FCC**

Indoor use · −10 °C to 55 °C operating · 5–95% non-condensing.
Country-specific approvals available on request.

SECURITY & TRUST

Signed firmware only
Every image is cryptographically signed and verified before it installs.

Pinned control channel
Each AP reaches the controller over a certificate-pinned, encrypted link.

No local attack surface
No local web interface and no default password to exploit.

Tenant isolation
Database-enforced separation between every customer and site.

Regulatory-safe radio
Transmit power held to each country's legal limit on every channel.

Automatic rollback
A failed update or bad config rolls itself back — no truck roll.

TECHNICAL SPECIFICATIONS

WIRELESS — 2.4 GHZ

Standards	802.11 b/g/n/ax/be
Band	2.400 – 2.484 GHz
MIMO	4×4
Antennas	Internal
Max data rate	1376 Mbps
Max TX power	24 ± 2 dBm*

WIRELESS — 5 GHZ & 6 GHZ

Standards	a/n/ac/ax/be (5 GHz) · ax/be (6 GHz)
5 GHz	5.150–5.850 GHz · 8646 Mbps · 4×4
6 GHz	5.925–7.125 GHz · 8646 Mbps · 4×4
Aggregate (tri-band)	18.6 Gbps (BE19000)
Max TX power	23 ± 2 / 23 ± 2 dBm*

HARDWARE

Summary	Qualcomm Wi-Fi 7 platform · tri-band 4×4 + 4×4 + 4×4 (12 streams), MLO, 320 MHz, 4096-QAM, MRU · up to 18.6 Gbps (BE19000) · 1536 clients

INTERFACES & CONTROLS

Uplink (SFP+)	1 × 10 GbE SFP+ (fibre)
Uplink (WAN)	1 × 10 Gbps RJ45, 802.3bt PoE-in
LAN	1 × 2.5 Gbps RJ45
USB	1 × USB
Reset	Factory reset: hold 6–10 s
Power	PoE 802.3bt, or DC 54 V/1 A · < 40 W

ENVIRONMENTAL

Operating temperature	−10 °C to 55 °C
Storage temperature	−40 °C to 70 °C
Humidity	5% – 95%, non-condensing

PHYSICAL

Dimensions	220 × 220 × 42 mm
Net weight	1.38 kg
Mounting	Ceiling / wall bracket

ON-DEVICE SOFTWARE — RORBIT OS

Operating mode	Cloud-managed access point (bridged to your LAN)
SSIDs	8 per band (16 total); hidden SSID
Security	WPA2-Personal, WPA3-Personal, WPA2/WPA3 mixed (PMF), ePSK (a personal passphrase per user or room)
Access control	Client isolation, client limit per radio, MAC allow / deny lists
Roaming & density	802.11r fast roaming; High density mode (slow legacy rates off, weak clients refused, multicast sent as unicast)
Radio	Per-country regulatory power cap on every channel; DFS
Management	Signed over-the-air updates with automatic rollback; LLDP neighbour discovery; locate (blink from the dashboard)
Hardening	No local web interface and no default password; controller certificate pinned; signed firmware only

STATUS INDICATORS

LED	Meaning
WAN	Uplink — solid: link up · flashing: traffic · off: down
LAN	Wired port — solid: link · flashing: traffic
WiFi	2.4 GHz green · 5/6 GHz blue, flashes with traffic
SFP	Fibre uplink — solid: link · flashing: traffic
SYS	Red at power-on, then green once the system is up

DIMENSIONS

220 × 220 × 42 mm
Dimensions (H × W × D)

1.38 kg
Net weight

802.3bt PoE
Power

Rorbit OS
Firmware

IN THE BOX

- ✓ Rorbit C970 access point
- ✓ Ceiling & wall mount bracket
- ✓ Mounting screws & anchors
- ✓ Quick-start guide + claim-code card

ORDERING INFORMATION

Order code	Description
ROR-C970	Rorbit C970 — Wi-Fi 7 tri-band flagship, 10G SFP+ uplink, 802.3bt, 1536 clients. Ships with Rorbit OS, cloud-managed.

A one-time claim code for cloud adoption is issued per unit at the controller.

One console for your whole fleet

Manage every Rorbit AP — indoor and outdoor — beside your existing Cambium fleet, from a single cloud console.

*Maximum transmit power is a hardware capability; Rorbit OS automatically limits actual radiated power to the regulatory limit of each site's country. Data rates are theoretical maximums; real-world throughput, client capacity and coverage vary with environment, mounting and client mix. Specifications subject to change without notice.

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