INDOOR · WI-FI 6 · CLOUD-MANAGED

Rorbit C550

Ceiling-mount dual-band Wi-Fi 6 access point for offices, hotels, retail and classrooms, managed entirely from the cloud.



The Rorbit C550 delivers Wi-Fi 6 indoors in a slim ceiling enclosure, powered over a single Ethernet cable. Mount it, connect it, and it configures itself from the Rorbit cloud.

Wi-Fi 6 · AX3000 | Gigabit PoE uplink | 256 clients | Zero-touch cloud | Mira AI built-in

3000Mbps	256	1 GbE	<16W
AGGREGATE RATE	CLIENTS	POE UPLINK	POWER DRAW

HIGHLIGHTS

- **Wi-Fi 6, 3 Gbps aggregate**
  Dual-band 2.4 + 5 GHz, OFDMA & MU-MIMO
- **Up to 256 clients**
  128 per radio, 256 in total
- **High density mode**
  For lobbies, meeting rooms and classrooms
- **Fast roaming (802.11r)**
  Seamless between C550 and O550 units
- **One cable**
  Gigabit Ethernet with PoE in
- **Zero-touch**
  Self-adopts to Rorbit with a one-time claim code

Wi-Fi that runs itself.

The C550 is made for the spaces people work, stay and shop in. Dual-band Wi-Fi 6 radios serve phones, laptops and IoT devices side by side, and **High density mode** keeps it fast when the room fills up.

From the moment it draws power, it talks to the **Rorbit cloud**: it adopts itself, applies your WLANs, streams live telemetry and holds its transmit power at the local regulatory limit on its own. Updates arrive from the cloud, signed and verified, and roll back automatically if anything goes wrong.

PRODUCT VIEWS



Top
Rorbit-branded face



Profile
Slim ceiling enclosure



Underside
Mount bracket & uplink port

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

- ✓ Offices & co-working
- ✓ Hotels & hospitality
- ✓ Retail & F&B
- ✓ Classrooms & campus
- ✓ Clinics & SMB

COMPLIANCE & ENVIRONMENT

CE **FCC**

−10 °C to 45 °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
Frequency band	2.400 – 2.4835 GHz
Max data rate	574 Mbps
Antennas	2 × internal, 4 dBi
Max TX power	24 ± 2 dBm*

WIRELESS — 5 GHZ

Standards	802.11 a/n/ac/ax
Frequency band	5.150 – 5.825 GHz (per country)
Max data rate	2402 Mbps
Antennas	2 × internal, 4 dBi
Max TX power	22 ± 2 dBm*

HARDWARE

Summary	Same platform as the O550: Qualcomm IPQ5018 + QCN6122 · 4T4R · 512 MB DDR3 · 8 MB NOR + 128 MB NAND (dual firmware slots) · up to 3000 Mbps · 128 clients per radio (256 total)

INTERFACES & CONTROLS

Uplink	1 × 10/100/1000 Mbps RJ45, PoE-in
Console	1 × serial console (service use)
Reset	Factory reset: hold 6–10 s
Indicator	1 × multi-colour status LED
Power input	PoE 802.3at, or DC 12 V / 1.5 A
Power consumption	< 16 W

ENVIRONMENTAL

Operating temperature	−10 °C to 45 °C
Storage temperature	−40 °C to 70 °C
Humidity	5% – 95%, non-condensing

PHYSICAL

Dimensions	186 × 186 × 37 mm
Net weight	0.55 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

Colour	Meaning
Red, slow blink	Booting
Red, fast blink	No internet
Blue blink	Connecting to the Rorbit cloud
Blue, solid	Online
Purple, fast blink	Updating (don't unplug)
White	Locate (from the dashboard)
Green / amber flash	Cable plugged in: green = full speed, amber = slow link

DIMENSIONS

186 × 186 × 37 mm
Dimensions (H × W × D)

0.55 kg
Net weight

−10 to 45 °C
Operating range

48 V PoE / 12 V DC
Power input

IN THE BOX

- ✓ Rorbit C550 access point
- ✓ Ceiling & wall mount bracket
- ✓ Mounting screws & anchors
- ✓ Quick-start guide + claim-code card

ORDERING INFORMATION

Order code	Description
ROR-C550	Rorbit C550 — indoor Wi-Fi 6 access point, Gigabit PoE uplink, mounting bracket. 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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