OUTDOOR · WI-FI 6 · CLOUD-MANAGED

Rorbit O550

IP67 dual-band Wi-Fi 6 outdoor access point — the hardware is proven, the software is what sets it apart.



The Rorbit O550 brings Wi-Fi 6 to the outdoors in a rugged IP67 enclosure. One PoE+ cable carries both power and data. It runs on a cloud platform no other outdoor AP in its class ships with.

IP67 weatherproof · Wi-Fi 6 · AX3000 · 2.5G uplink · 128 clients · Zero-touch cloud · Mira AI built-in

3000Mbps	IP67	2.5G	300m
AGGREGATE RATE	INGRESS RATING	ETHERNET UPLINK	COVERAGE RADIUS

HIGHLIGHTS

- **Wi-Fi 6, 3 Gbps aggregate**
  Dual-band 2.4 + 5 GHz, OFDMA & MU-MIMO
- **4 built-in omni antennas**
  360° coverage, ~300 m radius
- **2.5 Gigabit Ethernet uplink**
  Plus a Gigabit port, both PoE 802.3at
- **Built for the outdoors**
  IP67, UV-resistant housing, lightning & surge protection
- **128 concurrent clients**
  Fat/thin AP mode, VLAN-aware
- **Zero-touch**
  Self-adopts to Rorbit — no per-unit setup

Built to disappear into the landscape — impossible for your network to forget.

The O550 is made for the places Wi-Fi is hardest to deliver: exposed rooftops, open yards, crowded plazas and perimeter walls. Four built-in omnidirectional antennas spread dual-band Wi-Fi 6 across roughly a 300 m radius, and a **High density mode** keeps it fast when the crowd arrives.

What you don't see is what sets it apart. From the moment it draws power, the O550 is already talking to the **Rorbit cloud**: it adopts itself, applies your policy, streams live telemetry and caps its power to the local regulatory limit on its own. You mount it, run one cable, and it appears in your console.

PRODUCT VIEWS



Angled view
IP67 outdoor enclosure



Rear
Pole & wall mount bracket



Underside
Ports, reset & status LEDs

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

- ✓ Outdoor venues & hospitality
- ✓ Campus & yards
- ✓ Warehousing & logistics
- ✓ Public spaces & municipal
- ✓ Perimeter & CCTV backhaul

COMPLIANCE & ENVIRONMENT

CE **FCC**

IP67 · −30 °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
Frequency band	2.400 – 2.4835 GHz
MIMO	2×2
Antennas	4 × built-in omnidirectional, 360°
Max TX power	On request

WIRELESS — 5 GHZ

Standards	802.11 a/n/ac/ax
Frequency band	5.150 – 5.850 GHz (per country)
MIMO	2×2
Antennas	Shared with 2.4 GHz array
Max TX power	On request

HARDWARE

Summary	Qualcomm IPQ5018 platform · dual-band 2×2 + 2×2, OFDMA & MU-MIMO · up to 3000 Mbps (AX3000) · 128 concurrent clients · ~300 m coverage radius

INTERFACES & CONTROLS

Uplink	1 × 2.5 Gbps RJ45, 48 V PoE-in (802.3at)
Ethernet	1 × Gigabit RJ45
Reset	Factory reset: hold 6–10 s — returns to Rorbit OS defaults and re-adopts
Indicators	PWR · SYS · WAN · 2.4G · 5G
Power input	48 V standard PoE (802.3at)
Power consumption	On request

ENVIRONMENTAL

Operating temperature	−30 °C to 55 °C
Storage temperature	−40 °C to 70 °C
Ingress protection	IP67
Enclosure	UV-resistant plastic housing

PHYSICAL

Dimensions	304 × 181 × 88 mm
Net weight	On request
Mounting	Pole / wall bracket included

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
PWR	Power
SYS	Slow blink: booting · fast blink: no internet · double blink: connecting · solid: online
2.4G / 5G	Radio active
WAN	Uplink connected, flickers with traffic
All LEDs fast	Updating (don't unplug)
All LEDs slow	Locate (from the dashboard)

DIMENSIONS

304 × 181 × 88 mm
Dimensions (H × W × D)

IP67
Ingress rating

2.5G + 1G
Ethernet ports

48 V PoE
Power input (802.3at)

IN THE BOX

- ✓ Rorbit O550 access point
- ✓ Pole & wall mount bracket
- ✓ Waterproof RJ45 gland
- ✓ Mounting screws & clamp
- ✓ Quick-start guide + claim-code card

ORDERING INFORMATION

Order code	Description
ROR-O550	Rorbit O550 — outdoor Wi-Fi 6 access point, IP67, 2.5G + Gigabit PoE uplink, pole/wall bracket. Ships with Rorbit OS, cloud-managed.
ROR-POE-60	60 W 802.3at/bt PoE injector (optional; one per AP where no PoE switch is present)

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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