

Tirros Networks

Cell Site / Small Cell Hosting Requirements

1. Site & Space

- Minimum 1U–3U rack space per node (full cabinet preferred for macro sites).
- Indoor (controlled) or outdoor-rated enclosure acceptable.
- Clear access for installation and maintenance.
- Roof, pole, or wall mounting permitted for radios and antennas.

2. Power

- 120V or 240V AC power available at site.
- Minimum 500W continuous power budget per cell (expandable).
- Dedicated circuit preferred.
- Battery backup or UPS strongly recommended (minimum 30 minutes).
- Generator access preferred for macro sites.

3. Backhaul / Connectivity

- Minimum 1 Gbps Ethernet handoff (10 Gbps preferred).
- Public IPv4/IPv6 support or ability to route private IPs.
- Low-latency path to Tirros core (<20 ms preferred).
- Redundant backhaul strongly preferred.

4. RF & Antenna

- Permission to install and operate LTE / 5G NR radios.
- Antenna mounting rights with clear line-of-sight where applicable.
- Support for external antennas (directional or omni).
- Compliance with FCC and local RF exposure limits.

5. Environmental

- Operating temperature support for equipment (0–40°C indoor, -40–55°C outdoor).
- Adequate ventilation or HVAC for indoor installs.
- Weatherproofing for outdoor deployments.

6. Network Integration

- VLAN or dedicated L2 handoff support.
- Ability to pass tagged traffic.
- No carrier-grade NAT that interferes with EPC/5GC traffic.
- Support for IPsec/GRE if required.

7. Security

- Physical security (locked room, cabinet, or enclosure).
- Restricted access to authorized personnel only.
- CCTV or access logging preferred.

8. Legal & Permissions

- Written permission from property owner.
- Zoning and permitting compliance handled or approved.

- Agreement allowing 24/7 operation.
- No exclusivity clauses preventing cellular deployment.

9. Maintenance & Access

- 24/7 access for emergency maintenance preferred.
- Scheduled access acceptable for non-critical sites.
- Remote hands optional but preferred.

10. Monitoring & Management

- Allow outbound monitoring traffic.
- SNMP/telemetry access permitted.
- Power cycling access preferred (smart PDU or remote hands).

11. Cost & Terms

- Monthly hosting fee or revenue-share model negotiable.
- Power billed flat-rate or metered.
- Minimum 12-month term preferred.

12. Disqualifiers

- Unreliable power with no backup.
- Prohibited RF transmission.
- Excessive latency or packet loss.
- Inability to provide required access or permissions.

Contact: Tirros Networks

