



SCU2050

5G Sub-6 Outdoor Small Cell

The rapid adoption of 5G cellular technology is revolutionizing enterprise connectivity, delivering unmatched speed, reliability, and scalability across industries. With ultra-low latency, high bandwidth, and massive device capacity, 5G empowers businesses to leverage automation, IoT, edge computing, and AI-driven solutions with greater precision and efficiency. Unlike Wi-Fi or public networks, private 5G offers secure, customizable, and enterprise-grade connectivity, ensuring high-performance communications in mission-critical environments. Its dependable infrastructure is engineered to withstand harsh outdoor conditions, making it ideal for industrial zones, ports, mines, and agricultural operations, where stable, high-speed data transmission is vital for productivity, safety, and operational continuity. As industries demand resilient and future-ready networks, private 5G is setting the stage for unprecedented digital transformation.

The Askey SCU2050 is a purpose-built, all-in-one outdoor 5G Sub-6 small cell designed to deliver enterprise-grade coverage, enhanced connectivity, and an optimal balance of speed, range, and signal penetration. With its integrated 5G baseband, radio, and antenna, housed in a rugged, weather-resistant enclosure, the SCU2050 ensures reliable performance in demanding outdoor environments. A compact, yet powerful design simplifies installation while providing superior network access, making the SCU2050 an ideal solution for enterprises seeking scalable, high-performance outdoor 5G connectivity.

As a cost-effective part of Askey's end-to-end 5G portfolio, the SCU2050 enables enterprises to embrace 5G and edge computing in large expansive areas where Wi-Fi falls short. Featuring support for bands n48, n77, or n78 delivers the industry's highest Tx power output in a single device to ensure efficient, scalable deployment across multiple regions while reducing fragmentation and boosting operational performance. Purpose-built for data-intensive applications, the SCU2050 provides high-performance, mission-critical connectivity, enabling enterprises to optimize automation, logistics, and digital operations in demanding outdoor environments, such as warehouses, manufacturing sites, ports, event spaces, and mining facilities — fueling the next wave of industry transformation.

Askey helps you **evolve** your business to meet today's market speed and demands, backed by our market **knowledge** to make you **stronger**.

For more information, please visit [Askey/Small Cell](#)

General

- Band:
N48 (20/30/40MHz)
N77 (40/50/60/70/80/90/100MHz)
N78 (20/30/40/50/60/70/80/90/100MHz)
N79 (100MHz)
- Max. TX Power:
N48: EIRP < 30dBm
N77/N78/N79: 24dBm
- Antenna:
2x2 internal Omni with peak gain 5dBi
- Backhaul:
10G SFP+/2.5G WAN
- Power Supply:
AC 90 ~ 264V
- Power Consumption:
<60 W
- Active Users:
16~64
- Data Rates:
DDDSU: 750Mbps/200 Mbps
- Coverage:
LOS 70~100m radius for common usage
- Installation (Outdoor):
Wall/Pole mount

Environmental

- Sealing:
IP65
- Operating Temperature:
-20°C~ 55°C
- Operating Humidity:
90% maximum, non-condensing
- Dimensions:
W270 x H355 x D100mm
- Weight:
<9kg

Operations and Maintenance

- Fault Management
- Configuration Management
- Performance Management
- Security Management
- Software Upgrade

Features

- SA Network Architecture
- 3GPP Release 15
- All-in-One Product
- NG/Xn Handover
- DL/UL Resource Scheduling
- Self-Organizing Networks (SON)
- Measurement Report
- WebGUI Management
- Network Slicing & Interference Management

Box Contents

- SCU2050
- Power Adapter
- GPS Antenna

Enterprise Use Cases

- Smart Buildings
- Manufacturing / Warehouse
- Campus
- Sporting / Public Events
- Ports / Mining
- Underground Parking

Model Numbers (SKU)

- Model Name: NR xCell 60156A
SKU1: SCU2050 N77 (3.55~4.2GHz)
SKU2: SCU2050 N48 (3.55~3.7GHz)
SKU3: SCU2050 N78 (3.55~3.8GHz)
- Model Name: NR xCell 60156B
SKU4: SCU2050 N78 (3.3~3.8GHz)
- Model Name: NR xCell 60156C
SKU5: SCU2050 N79 (4.5~4.9GHz)

