



SCU2080 (N48 5W)

5G Sub-6 Small Cell

Askey SCU2080 is a compact yet powerful 5G NR gNB solution engineered for outdoor enterprise deployments. Fully compliant with 3GPP Release 15 Time Division Duplex (TDD) technology, it's housed in a rugged, lightweight IP66-rated enclosure designed to withstand industrial and environmental extremes.

With 5W output per port, external 2x2 MIMO support, and a directional antenna configuration, the SCU2080 delivers enterprise-grade throughput and ultra-low latency where it matters most — at the network edge. It integrates seamlessly into private 5G networks with 10G SFP+ backhaul, GPS/PTP timing synchronization, and centralized all-in-one device management capabilities (EMS). Ideal for manufacturing, logistics, smart campuses, and energy applications, the SCU2080 brings carrier-class reliability, scalability, and performance to enterprise environments that demand nothing less.

Built for scale, efficiency, and enterprise-grade performance, the SCU2080 serves as a cost-effective yet powerful addition to Askey's end-to-end 5G portfolio.

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/5G Small Cell](#)

General

- Band
2080 - N48 (3.55 ~ 3.7GHz)
- Bandwidth
2080 - 20/30/40MHz
- Max. TX Power
5W (10~37dBm) per port
- EIRP
 - Directional Antenna <47 dBm gain
 - Omni Antenna +40 dBm gain
- Antenna
External 2x2 MIMO
- Backhaul
2.5G WAN/10G SFP+
- Power Supply
± 48V DC
(AC Adapter and power surge protector included)
- Power Consumption
< 100 W
- LED: 1 LED
- Active Users
64
- Time Slot vs. Data Rates
 - DDDSU: 750Mbps/200Mbps
 - DSUUU: 330Mbps/500Mbps
 - DDDSU+DSUU (7:3):
640Mbps/310Mbps
 - 4:4 Semi-Synchronous TDD:
480Mbps/432Mbps
 - 7:2 Synchronous TDD:
765Mbps/216Mbps
 - 2:6 Semi-Synchronous TDD:
320Mbps/648Mbps
 - 3:5 Semi-Synchronous TDD:
380Mbps/540Mbps
- Modulation 256QAM DL/UL
- Timing Synchronization:
GPS/GLONASS/Galileo/PTP 1588V2
- Coverage
LOS 500m~1km for common usage
(directional antenna)
- Installation (Outdoor)
Wall/Pole mount

Environmental

- Sealing
IP66
- Operating Temperature
-40°C~ 55°C
- Operating Humidity
90% maximum, non-condensing
- Dimensions
321 x 231 x 135 (WxHxD, mm)
- Weight
<10kg

Operations and Maintenance

- IPv4/IPv6
- Local/Remote WebGUI Management
- TR069/Netconf
- Fault Management
- Configuration Management
- Performance Management
- Security Management
- Software Upgradepp
- KPI Counter

Key Features

- SA Network Architecture
- 3GPP Release 15
- 3GPP Release 16 Partial
- Radio Link Adaptation
- 64 Active Users
- Integrity – NIA1/NIA2
- Ciphering – NEA1/NEA2
- PCI confliction detection
- Close Loop Power Control
- DL/UL Resource Scheduling
- Inter-RAT Handover
- Measurement Report
- NG/Xn Handover
- QOS 5Qi
- DSCP marking - Per 5QI
- VLAN
- SAS CBSD

Box Contents

- SCU2080 Base Station
- Outdoor GPS Antenna
- Power Supply Unit
- Base Station Handle
- Waterproof Case
- Omni Antennas Kit (optional)

Enterprise Use Cases

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

Model Numbers (SKU)

- Model Name: SCU2080 N48
SKU: SCU2080 N48
Certification: FCC/OnGo

