SKU: SCU5050

5G Sub-6 Small Cell

Askey SCU5050 is an advanced, all-in-one 5G NR gNB solution designed for outdoor deployment, compliant with 3GPP Release 16 Time Division Duplex (TDD) technology.

With a transmission output of 5W per port, the SCU5050 supports Sub-6 GHz frequency bands and is deployed with external antennas. Its low power consumption, combined with a compact and lightweight enclosure, ensures quick and easy installation.

The SCU5050 is equipped with local web-based Graphical User Interface (GUI) software applications for easy configuration and management. In addition, Askey offers a robust, field-proven, all-in-one Device Management Service (EMS) with flexible deployment options either on a public cloud or on-premises, supporting the management of all Askey small cells such as the SCU5050.

The SCU5050 enables operators and verticals worldwide to enhance 5G coverage performance effectively and improve 5G network capacity. It also helps reduce the barriers to deploy 5G private network solutions for enterprise applications, particularly in industries, including manufacturing, warehousing, logistics, event venues, mining, and transportation management and operation.

Compact Design | Easy Deployment | High Performance

General

- Frequency Band
  N78 (3.4 ~ 3.8Ghz)
  N79 (4.8 ~ 4.9Ghz)
  N48 (3.55 ~ 3.7Ghz)
- Chanel Bandwidth
  All bandwidths defined by 3GPP
- Carrier Aggregation
  N48 CA: 10+20MHz/20+20MHz
  N78 CA: 40+40MHz
          @IBW within 200MHz
- OBW/IBW 200MHz/400MHz
- Sub-Carrier Spacing
  30KHz
- VSWR Support
- Max. TX Power
  5W (37dBm) per port
- Multiplexing
  4x4 MIMO (4DL/2UL)
- EIRP
  (43+antenna gain) dBm
- Antenna connection
  4T4R N-Type connectors for
  external 5G antenna
  One N-Type connector for
  external GPS antenna
- LED
  4 LED: Power/GPS/Status/Service
- Backhaul
  RJ45 10GE/10G SFP+
- Power Supply
  AC90 ~ 264V
- Power Consumption
  <200W
- Active Users
  Up to 256UE
- Time Slot vs Peak Data Rates
  DDDSU: 1400Mbps/200Mbps
          @DL 4layer UL 2layer 256QAM
  DSUUU: 330Mbps/610Mbps
          @DL 4layer UL 2layer 256QAM
- Coverage
  LOS 500 ~ 800m for common usage
  (directional antenna)
- Installation
  Wall/Pole mount
- IP Rating
  IP65
- Timing Synchronization
  GPS/PTP 1588V2

Dimensions

- 280 x 400 x 140 (WxHxD, mm)

Weight

- <12kg

Environmental

- Operating Temperature:
  -22°F to 131°F / -30°C to 55°C
- Operating Humidity:
  95% maximum, non-condensing
- Surge Suppression
  Network interface: 1KV
  Power interface: 6KV

Operations and Maintenance

- IPv4/IPv6
- Local/Remote WebGUI
  Management
- TR069/O1
- Fault Management
- Configuration Management
- Performance Management
- Security Management
- Software Upgrade
- KPI Counter
- Energy Saving Mode
  Cell Radio on/off
  TX power control

Features

- SA Network Architecture
- 3GPP Release 16
- Radio Link Adaptation
- 64 Active Users
- Integrity – N1A1/N1A2
- 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

Ordering Information

- Model Name: NR xCell 60256A1M
  SCU5050 N78 (3.4 ~ 3.8GHz)
  Certification: CE (TBD)
- Model Name: NR xCell 60256A2M
  SCU5050 N78 (3.3 ~ 3.6GHz)
  Certification: NCC (TBD)
- Model Name: NR xCell 60256BM
  SCU5050 N79 (4.8 ~ 4.9GHz)
  Certification: NCC/TELEC (TBD)
- Model Name: NR xCell 60256CM
  SCU5050 N48 (3.55 ~ 3.7GHz)
  Certification: FCC (TBD)