

SPIDER[®]**RADIO**

3G & 4G & 5G SA RAN Product Introduction

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Company Introduction



Suzhou 740m²

- **About us:** Founded in Dec. 2012, Spideradio is a leading provider of 4G LTE and 5G NR radio access network E2E solutions. We are committed to connecting every person and every thing for an intelligent world.
- **Our sites:** Headquartered in Suzhou, China, with main R&D centers in Shanghai, Tianjin, Fuzhou and Chengdu, and manufacturing base in Chongqing, Huainan and Monterrey, Mexico.
- **Our members:** 400+ employees, with 67% R&D engineers.
- **Our innovation:** 50+ patents of invention, member of O-RAN alliance.



Shanghai 1,100m²



Chengdu 900m²



Fuzhou 3,000m²



Tianjin 500m²

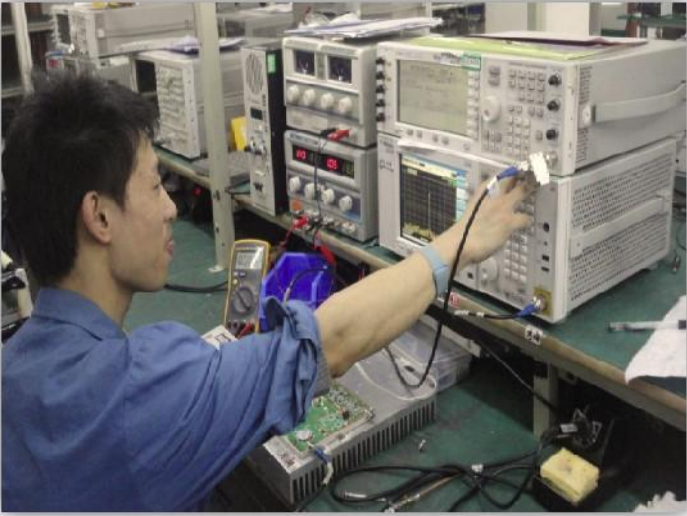
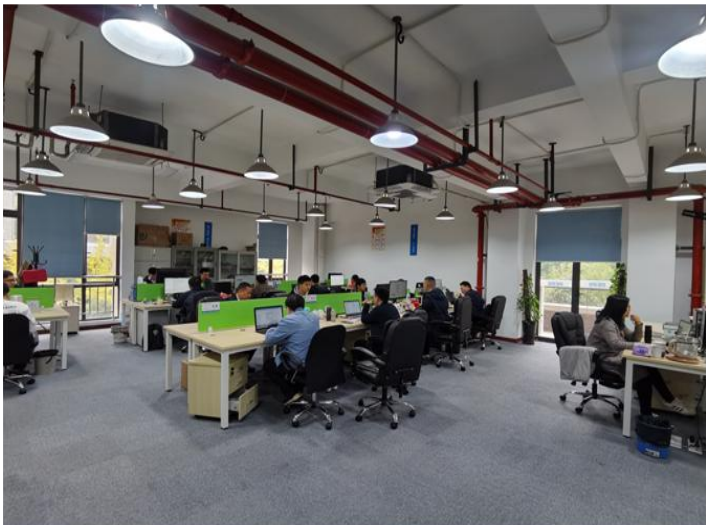


Chongqing 10,500m²



Huainan 12,000m²

R&D Centers



Labs and Instruments



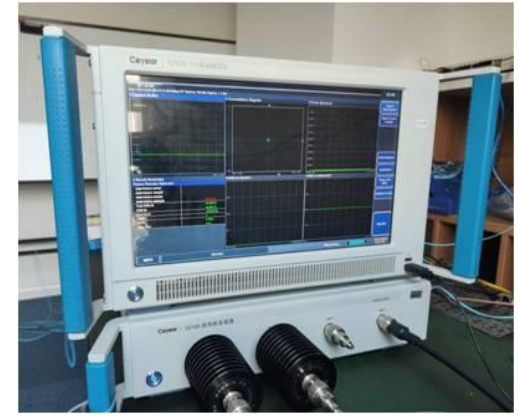
Temperature test chamber



Shield Room



AeroFlex TM500
Network Test



Ceyear 5252D
5G gNB Test



Vibration Measurement



Aging Room



Agilent
Network Analyzer
30KHz ~ 60GHz



Keysight, MXA
Signal Analyzer
10Hz ~ 26.5GHz



Keysight, MXG
Vector Signal Generator
9KHz ~ 6GHz

Factories



Production-line	Monthly production	Extensive monthly production
PCBA Production-line	30K	45K
Product Assemble	20K	35K



Aging Room



High/low temperature test chamber



Rain test chamber



Salt spray test chamber



UV aging test chamber

Chongqing New Factory, in China



Monterrey Factory (Partner in Mexico), in Mexico



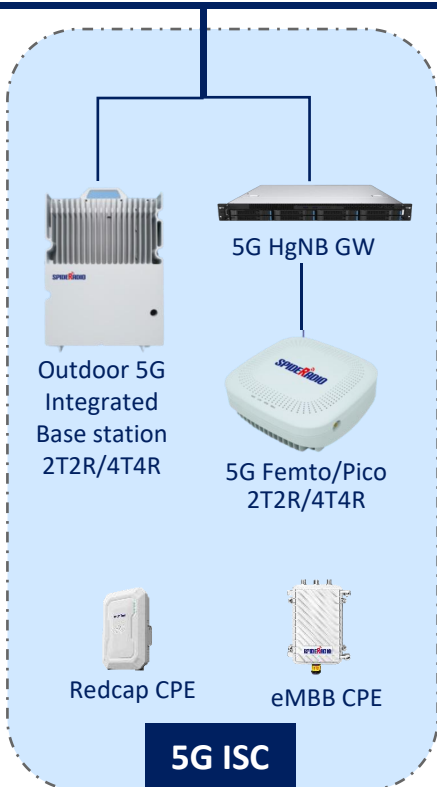
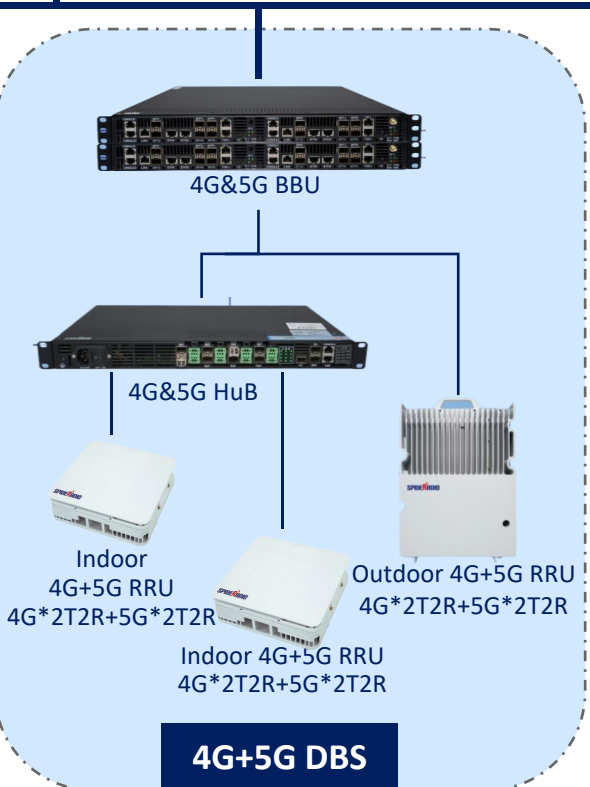
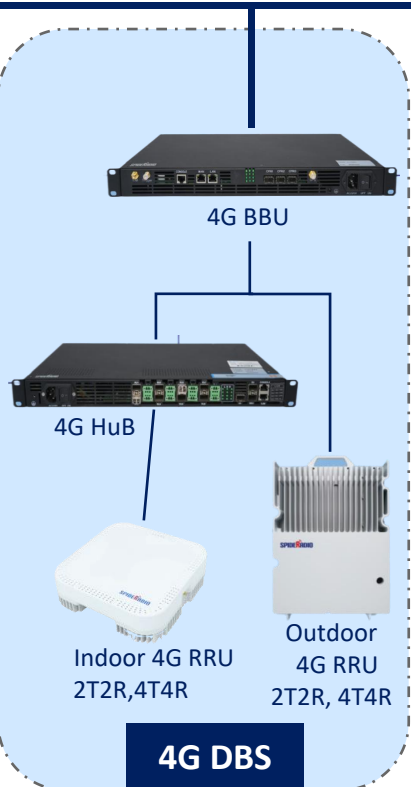
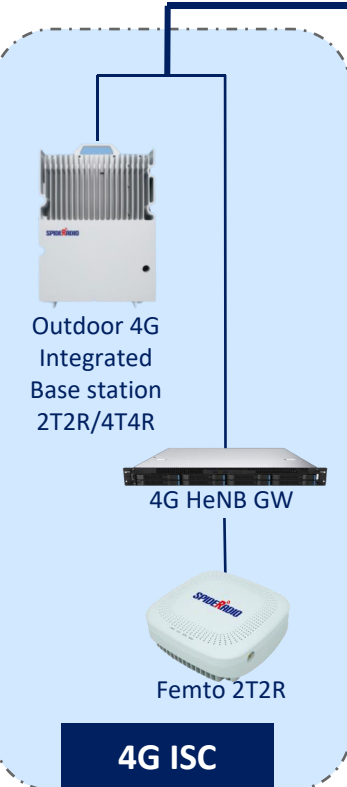
ELB S. DE R.L. DE C.V.
Address: Avenida Internacional 101 Parque Industrial Huinala, Apodaca, Nuevo Leon, CP66600 Mexico



3G/4G/5G SA RAN Product Introduction

- 4G LTE RAN
- 5G NR RAN
- 4G LTE&5G NR RAN
- 4G LTE&5G NR NMS/Core/Gateway
- 3G WCDMA RAN
- 3G WCDMA&4G LTE Femtocell
- eMBB CPE & RedCap CPE

3G/4G/5G SA RAN Solution



3G/4G/5G RAN Production

- 4G LTE RAN
- 5G NR RAN
- 4G LTE&5G NR RAN
- 4G LTE&5G NR NMS/Core/Gateway
- 3G WCDMA RAN
- 3G WCDMA&4G LTE Femtocell
- eMBB CPE &RedCap CPE

Bell L Series

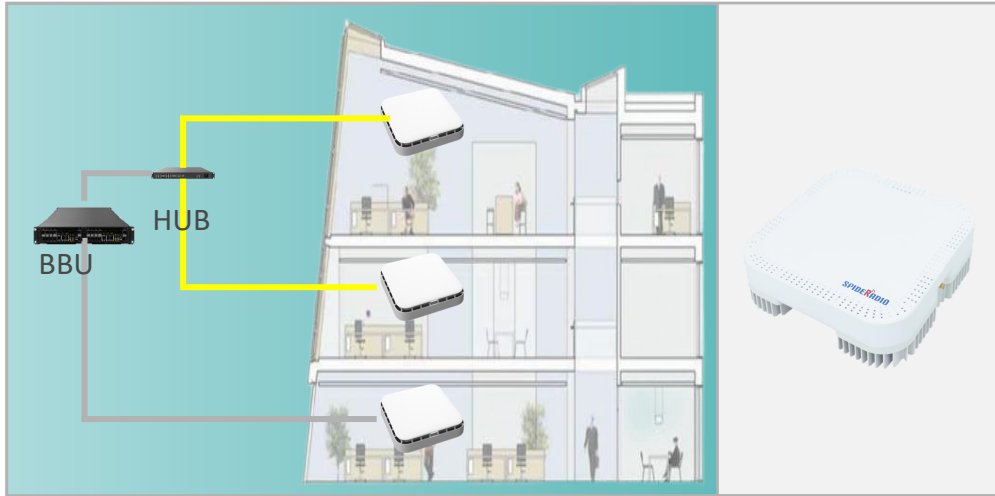


Highlights:

- Based on advanced SOC platform to provide high performance
- Maximum 3 cells, 600 online users/cell or 400 active users/cell
- FDD peak rate (up to): DL 300Mbps, UL 75Mbps @ 20MHz
- Plug&play with SON capabilities
- OPEX reduction thanks to lower power consumption

Model	4G LTE BBU
Standard	LTE-A TDD/FDD, 3GPP R12
Capacity	3 cells , 600 online users/cell or 400 active users/cell
Bandwidth	1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
Throughput	2T2R/4T4R , 64QAM,20MHz bandwidth 2T2R: DL 150Mbps ; UL 75Mbps 4T4R: DL 300Mbps ; UL 75Mbps
Function	Supports DRX, VoLTE, IPv6, CSFB, CA
Modulation	QPSK, 16QAM, 64QAM
Backhaul	1 optical (1G SFP+) and 1 RJ-45 Ethernet interface (1 GE)
Fronthaul	3 x optical (CPRI) (10Gbps)
Dimension	1 U high * 19 inches wide
Power supply	AC 220V (AC 140V~300V/45Hz~65Hz) DC - 48V (DC -40V~-57V)
Power consumption	< 60W

Rontgen Li Series



Highlights:

- Simplified topology, lighter and more flexible
- LTE FDD / TDD
- Plug&play with SON capabilities, easy to deploy
- Internal antenna
- PoE+ power supply
- OPEX reduction thanks to lower power consumption

Model	4G LTE Indoor RRU
Frequency	B1/3/5/8/34/38/39/40/41/87/88, and customized bands
Bandwidth	1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
TX power	2*250mW(2T2R)
Antenna	Internal antenna
Dimension	220x220x60mm
Weight	< 2kg
Power supply	PoE+ IEEE 802.3at standard, DC 12V
Fronthaul	CPRI*2 (to HUB/BBU)
Power consumption	2T2R: Typical 20W, maximum 25W
Installation	Ceiling or wall mount
Temperature	-10°C~55°C

Rontgen L Series



Highlights:

- Zero footprint, lighter and more flexible
- LTE FDD / TDD
- Customized frequency bands
- Town / village broadband coverage
- External high gain antenna
- OPEX reduction thanks to lower power consumption

Model	4G LTE Outdoor RRU
Frequency	B1/3/5/8/34/38/39/40/41/87/88, and customized bands
Bandwidth	1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
TX power	4*40W(4T4R), 2*60W(2T2R)
Antenna	External high gain antenna
Fronthaul	2 * CPRI (to HUB/BBU)
Power supply	DC - 48V (DC -40V~-57V)
Power consumption	<600W(4T4R), <400W(2T2R)
Dimension	420x320x160mm(4T4R), 420x320x120mm(2T2R)
Weight	< 20Kg(4T4R), <15Kg(2T2R)
Ingress Protection Rating	IP65
Installation	Pole or wall mount
Temperature	-40°C~55°C

Popov Li Series



Highlights:

- All-in-one and high-integrated, ultra simplified design
- Offices, Internet cafes, small shops coverage
- Plug&play with SON capabilities, easy to deploy
- Flexible backhaul, supports xPON / Internet / IPRAN / PTN
- 64 active users, Peak rate is up to DL 140Mbps and UL 41Mbps
- Coverage area is up to 200m²-500m²

Model	4G LTE Indoor Integrated Femto eNB
Standard	3GPP R10/12, LTE TDD/FDD
Frequency	B1/3/5/8/34/38/39/40/41/87/88, and customized bands
Bandwidth	5MHz/10MHz/15MHz/20MHz
Cell capacity	64 active users
Synchronization	GNSS, Network Listening
TX power	2*250mW
Antenna	Internal omni antenna
Throughput	DL 140Mbps, UL 41Mbps @ 20MHz for FDD
Backhaul	1 RJ-45 Ethernet interface (1 GE)
Power supply	PoE+ IEEE 802.3at standard, DC 12V
Power consumption	Typical 20W, maximum 30W
Dimension	220x 220 x 81.5mm
Weight	1.5kg

Maxwell L Series



Highlights:

- All-in-one and high-integrated, portable and zero footprint
- Long-distance rural broadband coverage
- Plug&play with SON capabilities, easy to deploy
- Flexible backhaul, supports xPON / Internet / IPRAN / PTN
- 600 online users, or 400 active users
- Peak rate is up to DL 300Mbps and UL 75Mbps

Model	4G LTE Outdoor Integrated Macro eNB
Standard	3GPP R10/12, LTE-A TDD/FDD
Frequency	B1/3/5/8/34/38/39/40/41/87/88, and customized bands
TX power	4*40W(4T4R), 2*60W(2T2R)
Cell capacity	1 cell with 400 active users or 600 online users
Cell bandwidth	1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
Throughput	2T2R/4T4R , 64QAM , 20MHz Bandwidth FDD 2T2R: DL 150Mbps ; UL 75Mbps 4T4R: DL 300Mbps ; UL 75Mbps
Antenna	External high gain antenna
Backhaul	1 optical (1G SFP+) and 1 RJ-45 Ethernet interface (1 GE)
Dimension	420x320x160mm(4T4R), 420x320x120mm(2T2R)
Weight	< 20Kg(4T4R), <15Kg(2T2R)
Power supply	DC - 48V (DC -40V~-57V)
Installation	Pole or wall mount

3G/4G/5G RAN Production

- 4G LTE RAN
- **5G NR RAN**
- 4G LTE&5G NR RAN
- 4G LTE&5G NR NMS/Core/Gateway
- 3G WCDMA RAN
- 3G WCDMA&4G LTE Femtocell
- eMBB CPE &RedCap CPE

Bell N42



Highlights:

- Based on advanced SOC platform to provide high performance
- Maximum 4 cells, 1200 online users/cell, or 400 active users/cell
- Peak rate (up to): 2T2R, DL 850Mbps, UL 375Mbps
- OPEX reduction thanks to lower power consumption

Model	5G NR BBU
Standard	5G NR SA, 3GPP R15, O-RAN Option 7-2x or 8
Capacity	4 cells , 1200 online users/cell, or 400 active users/cell
Bandwidth	FDD: 5MHz/10MHz/15MHz/20MHz/40MHz TDD: 20MHz/40MHz/60MHz/80MHz/100MHz
Throughput	2T2R, 256QAM, 100MHz BW, TDD 7D2U, DL 850Mbps, UL 250Mbps 5D3U, DL 750Mbps, UL 375Mbps
Function	Supports DRX, VoLTE, IPv6, CSFB, CA
Modulation	QPSK, 16QAM, 64QAM, 256QAM , $\pi/2$ - BPSK
Backhaul	1 optical (10G SFP+) + 1 RJ-45 Ethernet interface (10 GE)
Fronthaul	4 x optical (SFP28) (10/25Gbps)
Dimension	1 U high * 19 inches wide
Power supply	AC 220V (AC 140V~300V/45Hz~65Hz) DC - 48V (DC -40V~-57V)
Power consumption	< 75W

Bell N44

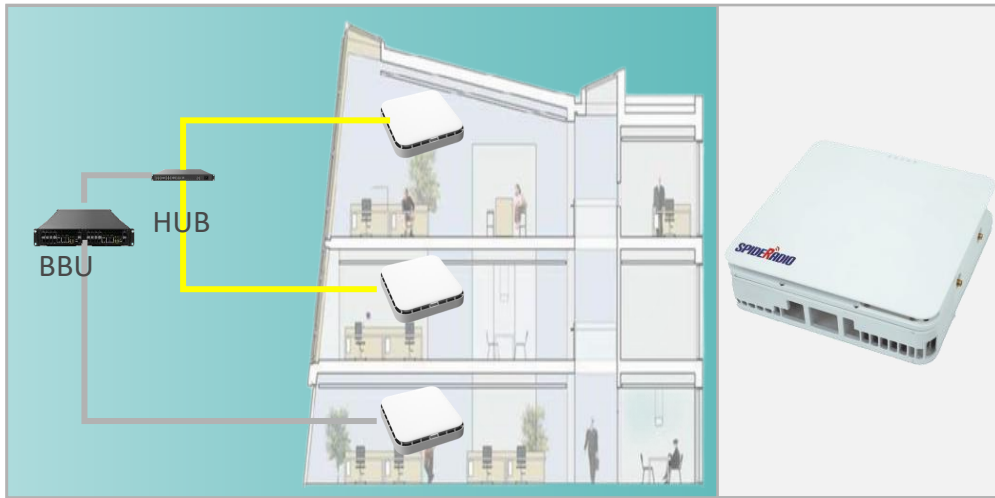


Highlights:

- Based on advanced SOC platform to provide high performance
- Maximum 4 cells, 1200 online users/cell, or 400 active users/cell
- Peak rate (up to): 4T4R, DL: 1700Mbps, UL: 375Mbps
- Plug&play with SON capabilities
- OPEX reduction thanks to lower power consumption

Model	5G NR BBU
Standard	5G NR SA, 3GPP R15, O-RAN Option 7-2x or 8
Capacity	4 cells , 1200 online users/cell, or 400 active users/cell
Bandwidth	FDD: 5MHz/10MHz/15MHz/20MHz/40MHz TDD: 20MHz/40MHz/60MHz/80MHz/100MHz
Throughput	4T4R, 256QAM, 100MHz BW, TDD 7D2U, DL 1700Mbps, UL 250Mbps 5D3U, DL 1500Mbps, UL 375Mbps
Function	Supports DRX, VoLTE, IPv6, CSFB, CA
Modulation	QPSK, 16QAM, 64QAM, 256QAM , $\pi/2$ - BPSK
Backhaul	1 optical (10G SFP+) + 1 RJ-45 Ethernet interface (10 GE)
Fronthaul	4 x optical (SFP28) (10/25Gbps)
Dimension	2 U high * 19 inches wide
Power supply	AC 220V (AC 140V~300V/45Hz~65Hz) DC - 48V (DC -40V~-57V)
Power consumption	< 100W

Rontgen Ni430



Highlights:

- Simplified structure, lighter and more flexible
- Supports O-RAN Option 7-2x and 8
- Plug&play, easy to deploy
- Support 4x4 MIMO
- Shopping mall, office building coverage

Model	5G NR Indoor RRU
Frequency	N41,N77, N78 , N79 and customized bands
Bandwidth	20MHz/40MHz/60MHz/80MHz/100MHz
TX power	4*250mW
Antenna	Built-in or external antenna with SMA connector
Rx sensitivity	-96dBm
Fronthaul	eCPRI / CPRI 2 x 10/25GE optical fiber interface
Weight	<3Kg
Dimension	180x180x50mm
Installation	Ceiling or wall mount
Power supply	PoE+ IEEE 802.3at standard, DC 12V
Power consumption	Maximum 60W

Rontgen N Series



Highlights:

- Zero footprint, lighter and more flexible
- Supports eCPRI / CPRI
- Supports 4x4 MIMO
- Plug&play, easy to deploy
- Urban and town coverage

Model	5G NR Outdoor RRU
Frequency	N1 / N5 / N28 / N41 / N77 / N78 / N79 , and customized bands
Bandwidth	FDD: 5MHz/10MHz/15MHz/20MHz/40MHz TDD: 20MHz/40MHz/60MHz/80MHz/100MHz
TX power	4*40W(4T4R), 2*40W(2T2R)
Antenna	External high gain antenna
Fronthaul	2 x optical fiber(10Gbps)
Power supply	DC - 48V (DC -40V~-57V)
Power consumption	<800W(4T4R), <480W(2T2R)
Dimension	420x320x160mm(4T4R), 420x320x120mm(2T2R)
Weight	< 20Kg(4T4R), <15Kg(2T2R)
Ingress Protection Rating	IP65
Installation	Pole or wall mount
Temperature	-40°C~55°C

Popov Ni430



Highlights:

- All-in-one and high-integrated, ultra simplified design
- Plug&play with SON capabilities, easy to deploy
- Network listening as synchronization option
- 64 active users, 128 connected users
- Peak rate is up to DL 1700Mbps and UL 375Mbps
- Offices, Internet cafes, small shops coverage
- Coverage area is up to 200m²-500m²

Model	5G NR Indoor Integrated Pico gNB
Standard	5G SA, TDD/FDD, 3GPP R15
Frequency	N41, N77, N78 , and customized frequency
Bandwidth	20MHz/40MHz/60MHz/80MHz/100MHz
Cell capacity	128 connected users, or 64 active users
Synchronization	Network Listening, GNSS, IEEE1588v2
Antenna	Internal omni antenna
TX Power	4*250mW
Throughput	4T4R, 256QAM, 100MHz BW, TDD 7D2U, DL 1700Mbps, UL 250Mbps 5D3U, DL 1500Mbps, UL 375Mbps
Backhaul	1 optical (10G SFP+) + 1 RJ-45 Ethernet interface (10 GE)
Power supply	PoE+ IEEE 802.3at standard, DC 12V
Power consumption	Typical 35W, maximum 40W
Dimension	220x 220 x 81.5mm
Weight	2Kg

Faraday Ni227



Highlights:

- All-in-one and high-integrated, ultra simplified design
- Plug&play with SON capabilities, easy to deploy
- Network listening as synchronization option
- 32 active users, 64 online users
- Peak rate is up to DL750Mbps and UL 375Mbps
- House, apartment coverage
- Coverage area is up to 200m²-300m²

Model	5G NR Indoor Integrated Femto gNB
Standard	5G SA, TDD/FDD, 3GPP R15
Frequency	N41, N77, N78 , and customized frequency
Bandwidth	20MHz/40MHz/60MHz/80MHz/100MHz
Cell capacity	32 active users, or 64 online users
Synchronization	Network Listening, GNSS, IEEE1588v2
Antenna	Internal omni antenna
TX Power	2*250mW
Throughput	2T2R, 256QAM, 100MHz BW, TDD 7D2U, DL 850Mbps, UL 250Mbps 5D3U, DL 750Mbps, UL 375Mbps
Backhaul	1 optical (1G SFP+) + 1 RJ-45 Ethernet interface (1 GE)
Power supply	PoE+ IEEE 802.3at standard, DC 12V
Power consumption	Typical 25W, maximum 30W
Dimension	220x 220 x 81.5mm
Weight	2Kg

Maxwell N Series



Highlights:

- All-in-one and high-integrated, portable and zero footprint
- Outdoor 5G integrated Small Cells
- Throughput (up to)2T2R, 7D2U, DL: 750Mbps, UL: 375Mbps
- Throughput (up to)4T4R, 7D2U, DL: 1500Mbps, UL: 375Mbps
- Urban and town coverage

Model	5G NR Outdoor Integrated Macro gNB
Standard	5G SA, TDD/FDD, 3GPP R15
Frequency	N1 , N5, N28, N41, N77, N78, and customized frequency
Bandwidth	FDD: 5MHz/10MHz/15MHz/20MHz/40MHz TDD: 20MHz/40MHz/60MHz/80MHz/100MHz
Cell capacity	1200 online users, or 400 active users
Throughput	4T4R, 256QAM, 100MHz BW, TDD 7D2U, DL 1700Mbps, UL 250Mbps 5D3U, DL 1500Mbps, UL 375Mbps
Synchronization	GNSS, IEEE1588v2
Antenna	External high gain antenna
TX Power	2*40W / 4*40W
Interface	1 optical (10G SFP+) and 1 RJ-45 Ethernet (1 GE)
Power supply	DC - 48V (DC -40V~-57V)
Power consumption	<900W(4T4R), <550W(2T2R)
Dimension	420x320x160mm(4T4R), 420x320x120mm(2T2R)
Weight	<15kg(2T2R), <20kg(4T4R)

Maxwell M244



Highlights:

- All-in-one and high-integrated, portable and zero footprint
- Outdoor 5G integrated mmWave gNB
- 128 dual-polarized antenna elements, built-in with max ± 60 degrees
- Peak rate is up to DL 4.8Gbps and UL 400Mbps
- Stadium, intelligent factory coverage

Model	5G NR mmWave Outdoor Integrated Macro gNB
Frequency	n256/n257/n258
Bandwidth	400MHz
TX power	EIRP: ≥ 54 dBm
Antenna	128 dual-polarized antenna elements, built-in with max ± 60 degrees
Interface	1 optical (10G SFP+) and 1 RJ-45 Ethernet (1 GE)
Cell capacity	400 users
Throughput	DL 4.8Gbps and UL 400Mbps
Volume	10L
Weight	< 6 kg
Power supply	DC - 48V (DC -40V~-57V)
Power consumption	Maximum 120W

3G/4G/5G RAN Production

- 4G LTE RAN
- 5G NR RAN
- **4G LTE&5G NR RAN**
- 4G LTE&5G NR NMS/Core/Gateway
- 3G WCDMA RAN
- 3G WCDMA&4G LTE Femtocell
- eMBB CPE &RedCap CPE

Bell NL Series

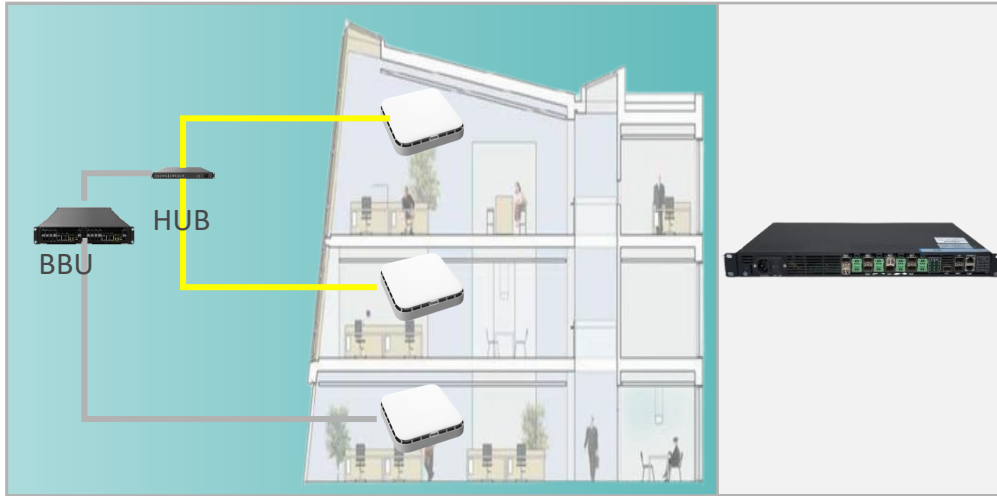


Highlights:

- 4G+5G dual mode
- CU/DU integrated or split (2 cells per DU)
- Maximum 4 NR cells and 3 LTE cells, 400 active users/cell
- Peak rate (up to): 5G DL 1700Mbps, UL 375Mbps;
4G DL 300Mbps, UL 75Mbps
- SMS and VoNR and EPS fallback
- OPEX reduction thanks to lower power consumption

Model	4G+5G Dual Mode BBU
Standard	5G NR SA, 3GPP R15, O-RAN Option 7-2x or 8 4G LTE-A, 3GPP R12, O-RAN Option 8
Capacity	5G: 4 cells, 1200 online users/cell, or 400 active users/cell 4G: 3 cells, 600 online users/cell, or 400 active users/cell
Bandwidth	4G: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz 5G: 20MHz/40MHz/60MHz/80MHz/100MHz
Throughput	4G: up to DL 300Mbps, UL 75Mbps 5G: up to DL 1700Mbps, UL 375Mbps
Backhaul	1 optical (10G SFP+) + 1 RJ-45 Ethernet interface (10 GE)
Fronthaul	4 x optical (SFP28) (10/25Gbps)
Dimension	2 U high * 19 inches wide
Power supply	AC 220V (AC 140V~300V/45Hz~65Hz) DC - 48V (DC -40V~-57V)
Power consumption	< 120W

Hertz 100 4G+5G HUB

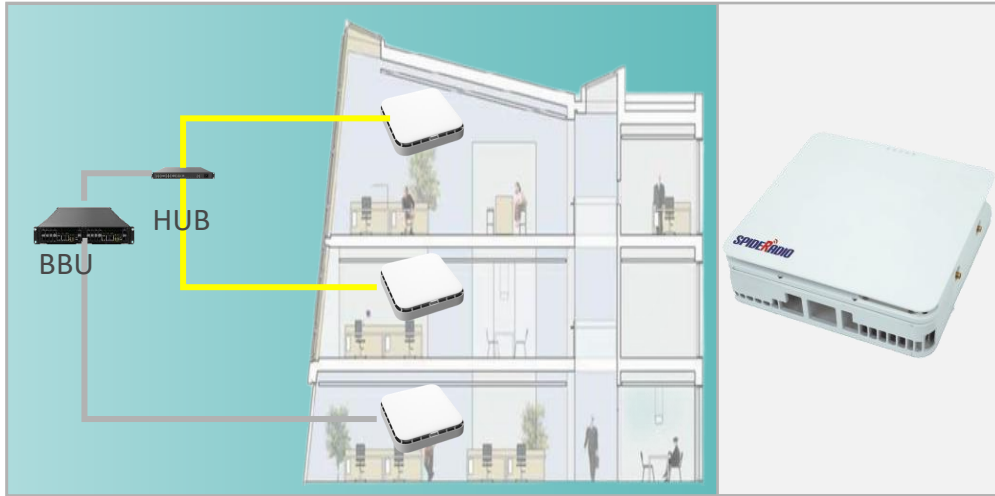


Highlights:

- Support up to 8 pRRU
- Provide power supply to RRU with photoelectric composite cable
- Support two layers cascading
- Remote monitor, operate, software upgrade and manage by NMS

Model	4G+5G HUB
Network	Support 1:8 networking , 2 layers cascading
Multimode	Support 4G + 5G network
Interface	Support CPRI or eCPRI
Backhaul	2x optical (SFP28) (10/25Gbps)
Fronthaul	8x optical (SFP28) (10/25Gbps)
Remote Distance	200 meters of photoelectric composite cable
Size	1U high * 19 inches wide
Power supply	AC 220V (AC 140V~300V/45Hz~65Hz) DC - 48V (DC -40V~-57V)
Power consumption	<55 W (without PoE+ output power)
DC 54V Output Power	8 x 100W
Synchronization	IEEE1588V2

Rontgen NLi630



Highlights:

- 4G+5G dual mode
- Simplified structure, lighter and more flexible
- Support O-RAN Option 7-2x and 8
- Plug&play, easy to deploy
- Support 4x4 MIMO(5G), 2x2MIMO(4G)
- Shopping mall, office building coverage

Model	4G+5G Dual Mode Indoor RRU
Frequency	5G: N1, N41, N78 , and customized bands 4G: B1/3/5/8/34/38/39/40/41/87/88, and customized bands
Bandwidth	5G: 20MHz/40MHz/60MHz/80MHz/100MHz 4G: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
TX power	4*250mW(5G), 2*250mW(4G)
Antenna	Built-in or external antenna with SMA connector
Rx sensitivity	-94dBm
Fronthaul	eCPRI / CPRI 2 x 10GE optical fiber interface
Weight	<3Kg
Dimension	180x180x50mm
Installation	Ceiling or wall mount
Power supply	PoE+ IEEE 802.3at standard, DC 12V
Power consumption	Maximum 80W

Rontgen NL452



Highlights:

- 4G+5G dual mode
- Support O-RAN Option 7-2x and 8
- Plug&play with SON capabilities, easy to deploy
- Urban, town, rural coverage

Model	4G+5G Dual Mode Outdoor RRU
Frequency	5G: N1/N41/N78 , and customized bands 4G: B1/3/5/8/34/38/39/40/41/87/88, and customized bands
Bandwidth	5G: 20MHz/40MHz/60MHz/80MHz/100MHz 4G: 1.4MHz/3MHz/5MHz/10MHz/15MHz/20MHz
TX power	2*40W(5G), 2*40W(4G)
Antenna	External high gain antenna
Rx sensitivity	-94dBm
Fronthaul	eCPRI / CPRI 2 x 10GE optical fiber interface
Weight	<20Kg
Dimension	420x320x160mm(4T4R)
Installation	Pole or wall mount
Power supply	DC - 48V (DC -40V~-57V)
Ingress Protection Rating	IP65

3G/4G/5G RAN Production

- 4G LTE RAN
- 5G NR RAN
- 4G LTE&5G NR RAN
- 4G LTE&5G NR NMS/Core/Gateway
- 3G WCDMA RAN
- 3G WCDMA&4G LTE Femtocell
- eMBB CPE &RedCap CPE

Gates Series - 4G/5G Femtocell Gateway

- Support mainstream encryption algorithms and integrity algorithms, such as DES, 3DES, AES, MD5, SHA-1, etc
- Supports Encapsulated Secure Payload (ESP) tunneling mode
- Support ACL and DOS/DDOS attack detection and protection
- Support multi-MME/AMF load balancing
- Support UE switching between Small Cells within the gateway and macro stations outside the gateway
- Supports access modes such as Open, Closed, and Hybrid



- Based on Intel[®] DPDK's efficient user space vSwitch, faster vSwitch and virtual machine communication
- Supports multiple access methods, including IPRAN, PTN, and xPON access
- Supports standard interfaces and small cell base station access from different manufacturers
- Support redundant configuration and dual machine hot backup mechanism
- Support macro micro interoperability function

Neumann Series - 4G/5G Converged NMS

- Support TR-069 and O-RAN netconf+yang protocols, able to management 3rd party equipment, including 4G / 5G base station, 5G core, etc
- Support to deploy easily on any general x86 servers and run on Redhat, CentOS and mainstream VMs
- Support GUI, SBI and NBI multi-plane interface
- Support HTTPS security encryption interaction mode
- Adopts standard protocols and universal interfaces, and has good scalability. Interfaces with network elements such as BOSS, SPG, SBC, and Alarm System can be customized



- Spideradio 4G/5G Converged NMS integrated configuration management, fault management, performance management, release management, measurement report management, security management, log&trace management, system maintenance and operation, etc

Codd Series - 4G/5G Converged Core

- Allows the customers to control their own data, expand services on a flexible basis, achieve smooth evolution to 5G, as well as protecting their investment
- Cloud-native architecture and 4G/5G convergence, supports NFV
- Converged 4G EPC and 5GC elements based on 3GPP specification, allowing the connection of 4G/5G base station and accessing of 4G/5G UEs
- Embedded IMS Core, supports VoLTE and VoNR
- Supports UPF edge deployment, LBO(Local BreakOut) UPF deployment
- Light, Medium, Standard model supports online users from 3000 to more than 50000
- Supports customization



- Spideradio 4G/5G Converged Core harnesses the 4G/5G convergence and cloud-native technologies, to help customers – from government agencies to transportation industry customers, and beyond – quickly build highly reliable, secure, and resilient dedicated core networks

3G/4G/5G RAN Production

- 4G LTE RAN
- 5G NR RAN
- 4G LTE&5G NR RAN
- 4G LTE&5G NR NMS/Core/Gateway
- **3G WCDMA RAN**
- 3G WCDMA&4G LTE Femtocell
- eMBB CPE &RedCap CPE

Faraday Wi124



Highlights:

- Support R99/R4/R5/R6 WCDMA UE
- Support SMS, Voice
- Support HSDPA and HSUPA

Model	3G WCDMA Indoor Femtocell AP
Standard	3GPP FDD Release 8
Frequency	B1, 1920 ~ 1980MHz, 2110 ~ 2170MHz
Bandwidth	5MHz
Cell capacity	32
Synchronization	Network Listening
TX Power	250mW
Throughput	UL/DL 128kbps/128kbps HSDPA/HSUPA: 21Mbps(Tested: 8.7Mbps)/ 5.76Mbps(Tested:1.8Mbps)
Backhaul	1 RJ-45 Ethernet interface
Power supply	DC 12V
Power consumption	10W
Dimension	180x180x50mm
Weight	1Kg

Maxwell W143



Highlights:

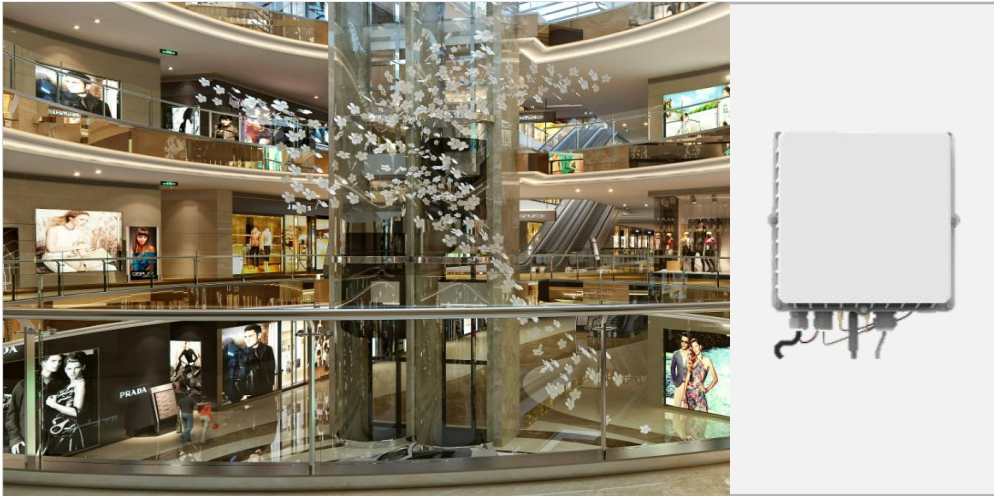
- Support R99/R4/R5/R6 WCDMA UE
- Support SMS, Voice
- Support HSDPA and HSUPA

Model	3G WCDMA Outdoor Integrated NodeB
Standard	3GPP FDD Release 8
Frequency	B1, 1920 ~ 1980MHz, 2110 ~ 2170MHz
Bandwidth	5MHz
Cell capacity	32
Synchronization	Network Listening
TX Power	20W
Throughput	UL/DL 128kbps/128kbps HSDPA/HSUPA: 21Mbps(Tested: 8.7Mbps)/5.76Mbps(Tested:1.8Mbps)
Backhaul	1 RJ-45 Ethernet interface
Power supply	DC -48V
Power consumption	80W
Dimension	15L
Weight	15Kg

3G/4G/5G RAN Production

- 4G LTE RAN
- 5G NR RAN
- 4G LTE&5G NR RAN
- 4G LTE&5G NR NMS/Core/Gateway
- 3G WCDMA RAN
- **3G WCDMA&4G LTE Femtocell**
- eMBB CPE &RedCap CPE

Faraday WLi326



Highlights:

- Support WCDMA and LTE FDD/TDD
- Support WCDMA HSDPA/HSUPA
- Simplified topology, lighter and more flexible
- Plug&play with SON capabilities, easy to deploy
- Internal antenna

Model	3G WCDMA+4G LTE dual mode Indoor Femtocell AP
Standard	WCDMA R8 / LTE R10
Frequency	WCDMA 1920 ~ 1980MHz, 2110 ~ 2170MHz LTE: B3, and customized bands
Bandwidth	WCDMA: 5MHz / LTE:20MHz
Cell capacity	WCDMA:8 Users / LTE:64Users
Synchronization	Network Listening
TX Power	WCDMA:125mW / LTE: 125mW/channel
Throughput	HSDPA/HSUPA: DL7.2Mbps/UL1.4Mbps LTE: TDD/FDD 2T2R DL 150Mbps/UL 75Mbps
Backhaul	1 RJ-45 Ethernet interface
Power supply	DC 12V
Power consumption	25W

3G/4G/5G RAN Production

- 4G LTE RAN
- 5G NR RAN
- 4G LTE&5G NR RAN
- 4G LTE&5G NR NMS/Core/Gateway
- 3G WCDMA RAN
- 3G WCDMA&4G LTE Femtocell
- eMBB CPE &RedCap CPE

RedCap CPE



Highlights:

- Support 3GPP R17
- Low power consumption with low-cost design
- N1, N5, N28, N41, N78, N79 and customized bands

Model	RedCap CPE
Standard	3GPP R17
Frequency	N1, N5, N28, N41, N78, N79 and customized bands
Function	Support 5G LAN SIB9 high precision timing Support small data transmission
Bandwidth	20MHz
Modulation	64QAM
Reliability	99.9%
Weight	< 1Kg

eMBB CPE



Highlights:

- Support 3GPP R15
- Support variable frequency from 350MHz to 6GHz
- Support licensed and unlicensed bands

Model	eMBB CPE
Standard	3GPP R15
Frequency	Variable frequency, from 350MHz to 6GHz including licensed and unlicensed bands
Bandwidth	5MHz/10MHz/15MHz/20MHz/40MHz/60MHz/80MHz/100MHz
Tx Power	20~28dBm
Modulation	MCS0 (QPSK) to MCS28 (256QAM)
Reliability	99.9%
Weight	< 1Kg

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