
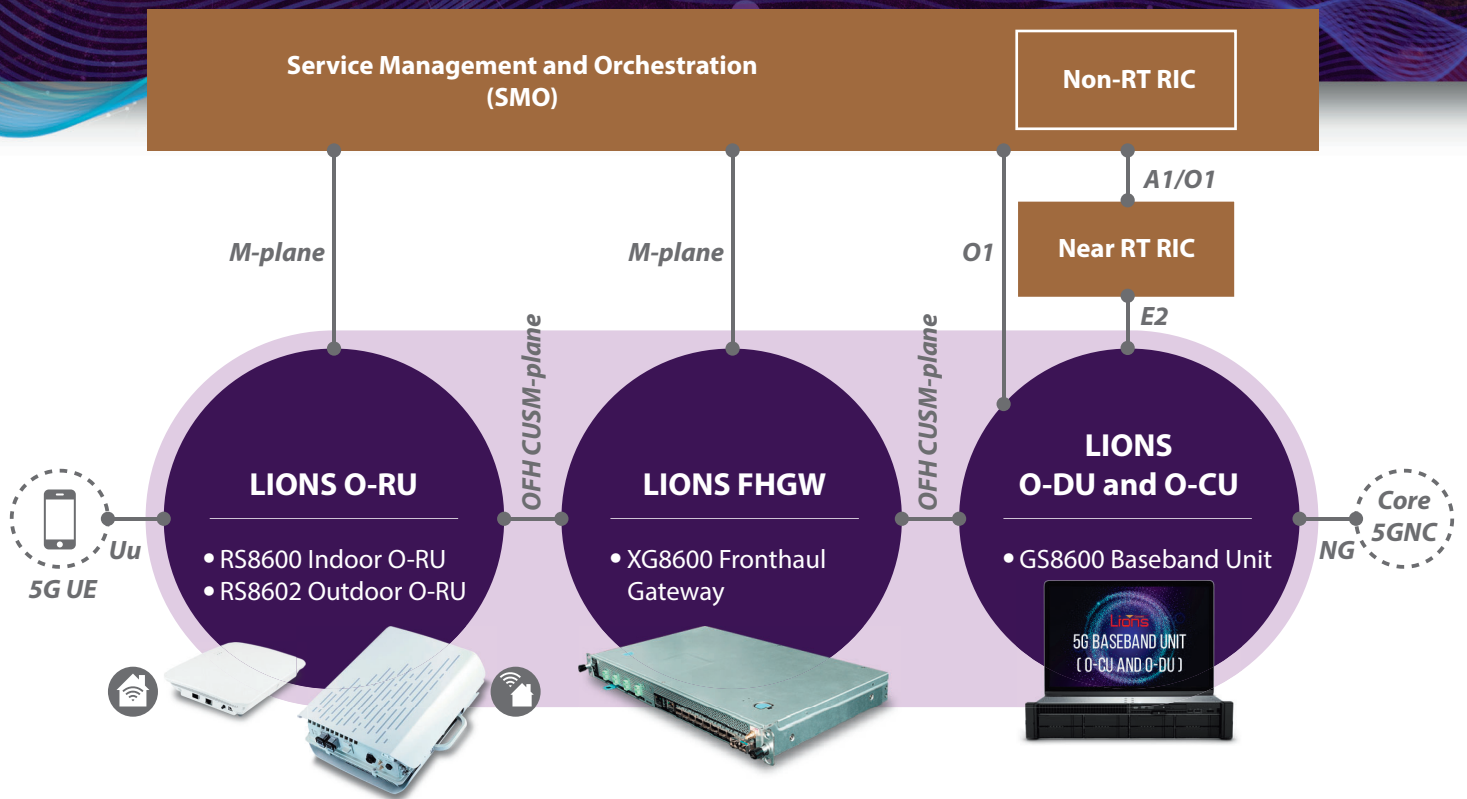


RANathon 5G O-RAN gNodeB

-  Indoor and outdoor radio coverage
-  Flexible network deployment by Fronthaul Gateway
-  Pre-integrated for performance and reliability



Deployment

1 cell per BBU



Master FHGW



Cascade



Slave FHGW



Connecting up-to 8 O-RU per FHGW



Connecting up-to 8 O-RU per FHGW

Features

- Flexible deployment for various phases of 5G network development
- 3GPP R15 5G NR Sub-6 SA for 5G wireless applications
- n78, n79, or n48 for private 5G in Germany, Japan, Taiwan, United States, and other countries.
- O-RAN 7-2x split architecture and Fronthaul interface support CUSM planes
- O-RAN PlugFest verified fronthaul/end-to-end IOT and security/stress/stability tests
- 3GPP TS 33.511 Security Assurance Specifications (SCAS) for gNodeB compliant

Key specifications

Network Element	Description
5G Baseband Unit	3GPP R15, 3GPP TS 38.104, O-CU and O-DU CUSM plane/ FPGA PCIe acceleration card/ Backhaul: NG for 5G Core Network/ Fronthaul: O-RAN 7-2x Category A split; eCRPI/ Registered UEs : 400/ Activated UEs : 128 : UEs per TTI : 8/ O1 and EMS management
5G Fronthaul Gateway	Open Fronthaul Uplink aggregation and downlink relay/ Interface: O-RU: 10G SFP+ eCPRI x 8; BBU: 10G SFP+ eCPRI x 1; FHGW cascading: 10G SFP+ x 1/Synchronization: 1588v2; SyncE; GPS/ Remote powering for indoor O-RU
5G Indoor O-RU	Frequency: n78, n79, or n48/ Bandwidth: 100MHz/ MIMO: 4T4R/ 250mW (24dBm) per channel/ Built-in omnidirectional antenna/ 10G SFP+ eCPRI x1 for Fronthaul/ 1588v2 and SyncE synchronization
5G Outdoor O-RU	Frequency: n78, n79, or n48/ Bandwidth: 100MHz/ MIMO: 4T4R/ 5W (37dBm) per channel/ External antenna with N-type connector/ 10G SFP+ eCPRI x1 for Fronthaul/ 1588v2 and SyncE synchronization

