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5G Macro Radios

FIREIR3

An open and virtualized RAN
solution for telecom operators



STL Firebird is a portfolio of multi-band multi-RAT FDD & TDD macro open radio units (O-RUs) available in different bands. These carrier grade macro O-RUs are compliant with 3GPP Release 15 and can be upgraded to Release 16 through software updates. These standardized O-RUs work seamlessly with O-DU from any vendor to form the gNodeB and supports the delivery of high-speed data, mobility, seamless voice and broadcast services.

STL macro O-RUs support multiple component carriers in several configurations covering LTE, NR & NB-IoT technologies with antenna configuration of four/eight transmit and receive paths (4T4R/8T8R). The units are physically compact, easy to install and have high conducted output power, making them a good fit for wide area coverage in outdoor deployment.

Here are the **top 5 salient features of Firebird** that make it ideal for best **5G outdoor coverage**:



Faster Time to Market

These standardized O-RUs are interoperable with O-DUs from several vendors, hence faster time to market



Better Cost

Standardized open interfaces enable innovation and competition among vendors and hence better cost



Lower Power

With low power consumption, it helps bring down the operational expense for the service providers



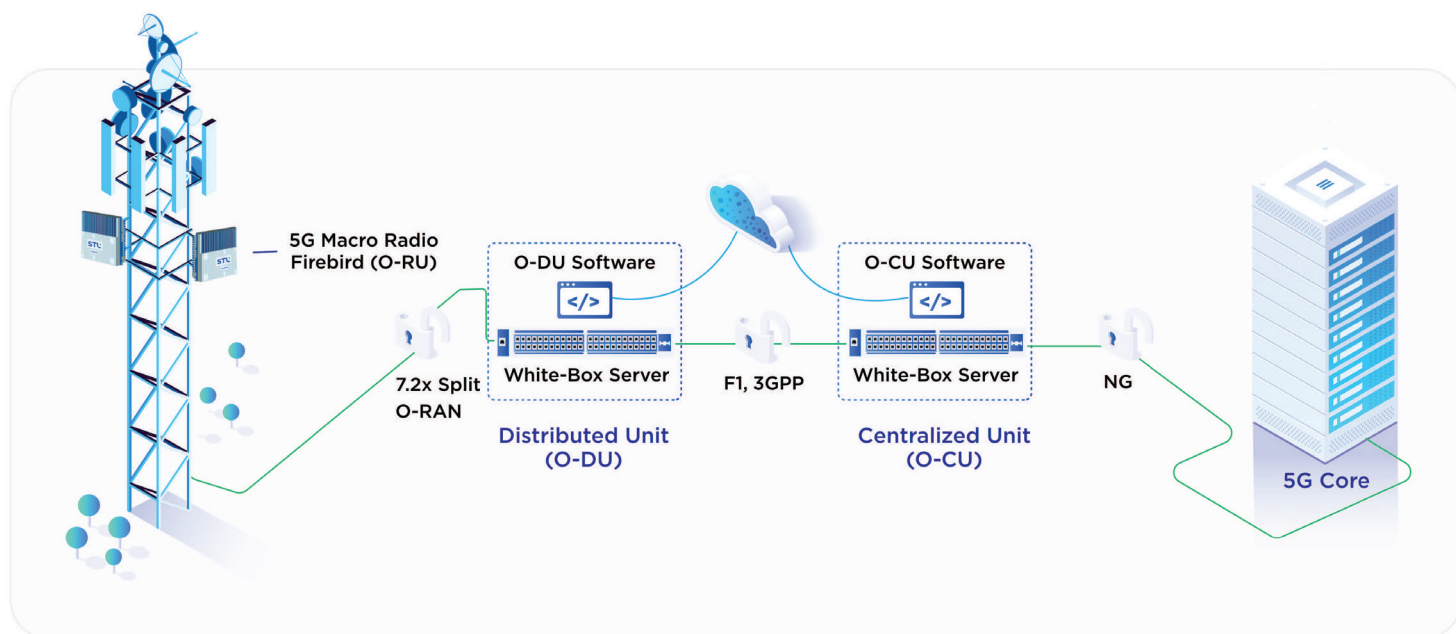
Easier Deployment in Outdoor Settings

These O-RUs are carrier grade hardware (IP 65 rating) and robust enough to face the harsh and challenging conditions of the outdoor environment



Simpler Operations

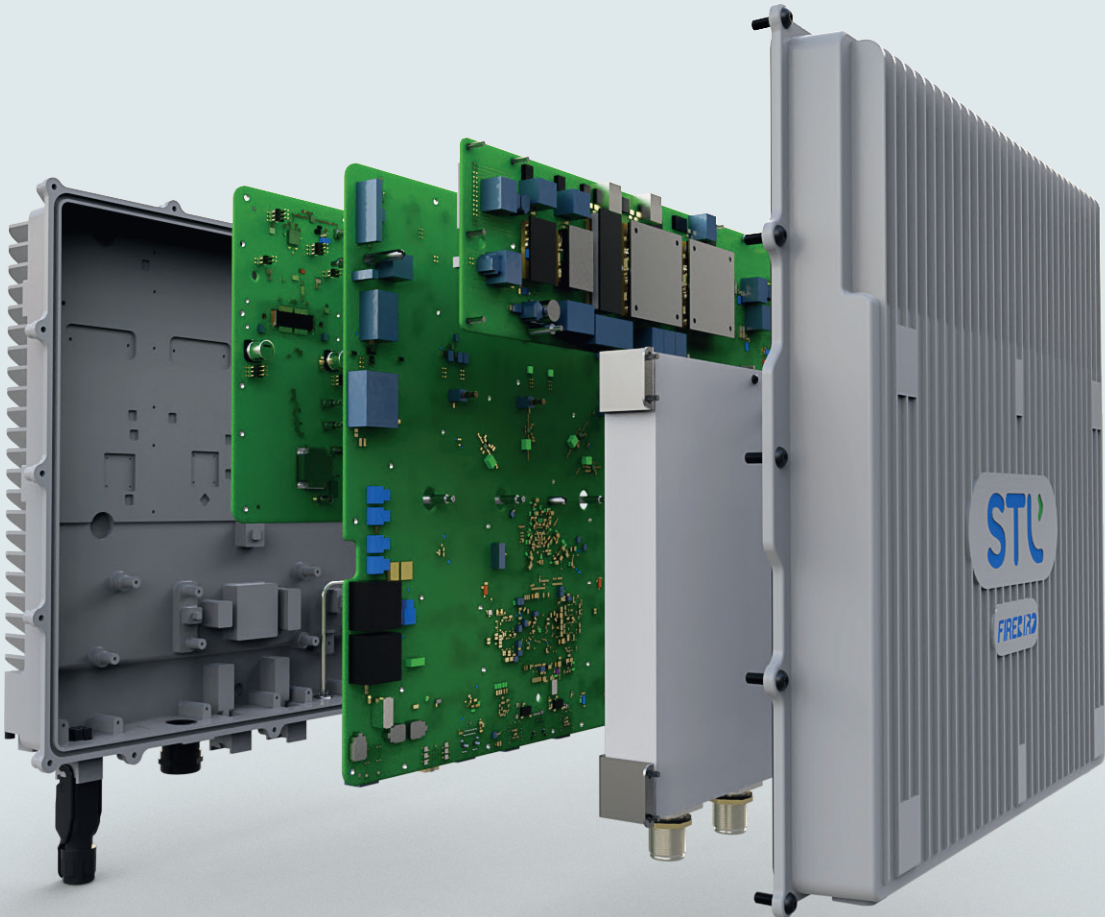
Easy field set-up and verification, software diagnostics and easy “hitless” upgrades



Key Specifications:

Deployment Type	Outdoor Macro O-RU
Radio Configuration	Multi-RAT (LTE + 5G NR), 4T4R / 8T8R
Frequency Bands Supported	n1 (FDD), n40, n41, n78 (TDD)
Carrier Aggregation	Upto 4 CC
Antenna	External
Fronthaul	2x 25G over SFP28 (Cascading support)
Power	40W per Port, per Carrier
O-RAN Functional Split	Split 7.2x
3GPP Compliance	Release 15, Software Upgradable to Release 16

Firebird Schematic





About Sterlite Technologies Ltd (STL) STL is a global leader in end-to-end data network solutions.

We design and deploy high-capacity converged fibre and wireless networks. With expertise ranging from optical fibre and cables, hyper-scale network design, deployment and network software, we are the industry's leading integrated solutions provider for global data networks. We partner with global telecom companies, cloud companies, citizen networks and large enterprises to design, build and manage such cloud-native software-defined networks.

STL has innovation at its core. With intense focus on end-to-end network solutions development, we conduct fundamental research in next-generation network applications at our Centres of Excellence. STL has strong global presence with next-gen optical perform, fibre and cable manufacturing facilities in India, Italy, China and Brazil and two software-development centres.

For more on STL, visit : www.stl.tech