

OPERATING SYSTEM FOR EMBEDDED PRODUCTS

LumenRadio's operating system MiraOS enables a large-scale and easy-to-install wireless mesh network. Our patented technologies enable ultra-reliable and Future-Proof connectivity with unparalleled features for the most challenging IoT applications. MiraOS can operate with any radio technology and on any radio chip.



MiraOS is developed to be used in many different applications from wide area critical building control, to ultra low energy meshing on battery or energy harvesting.

MiraOS is truly providing Future-Proof communication and hassle free operation through our patented technology for:

- Ultra-reliable large scale mesh communication
- Bluetooth Mesh support
- Open application layer for customer development
- Standard IPv6 support
- Best in class firmware upgrade over the air
- Multi standard support.
- Wide range of chipset support



See the building blocks of
MiraOS on the other side

WHY MIRA FOR LIGHTING?

MiraOS is a perfect fit for everything from small room light control applications through Bluetooth Mesh* to building wide control through Mira Mesh with standard IPv6. MiraOS is developed with focus on easy scaling which gives you the option to start with light controls for a single room and later scale to IoT enabled light controls.

*Coming soon

With MiraOS your luminaire will be **IoT ready** for the business critical applications of tomorrow.

MiraOS has an open application layer for customer development. No need for an external processor for hosting of light control applications.

HARDWARE ABSTRACTION LAYERS

MiraOS comes with an hardware abstraction layers for the majorities of I/O's such as UART, SPI, NFC, I2C and many more. Soon to come is DALI and DMX drivers for even easier light control applications development.

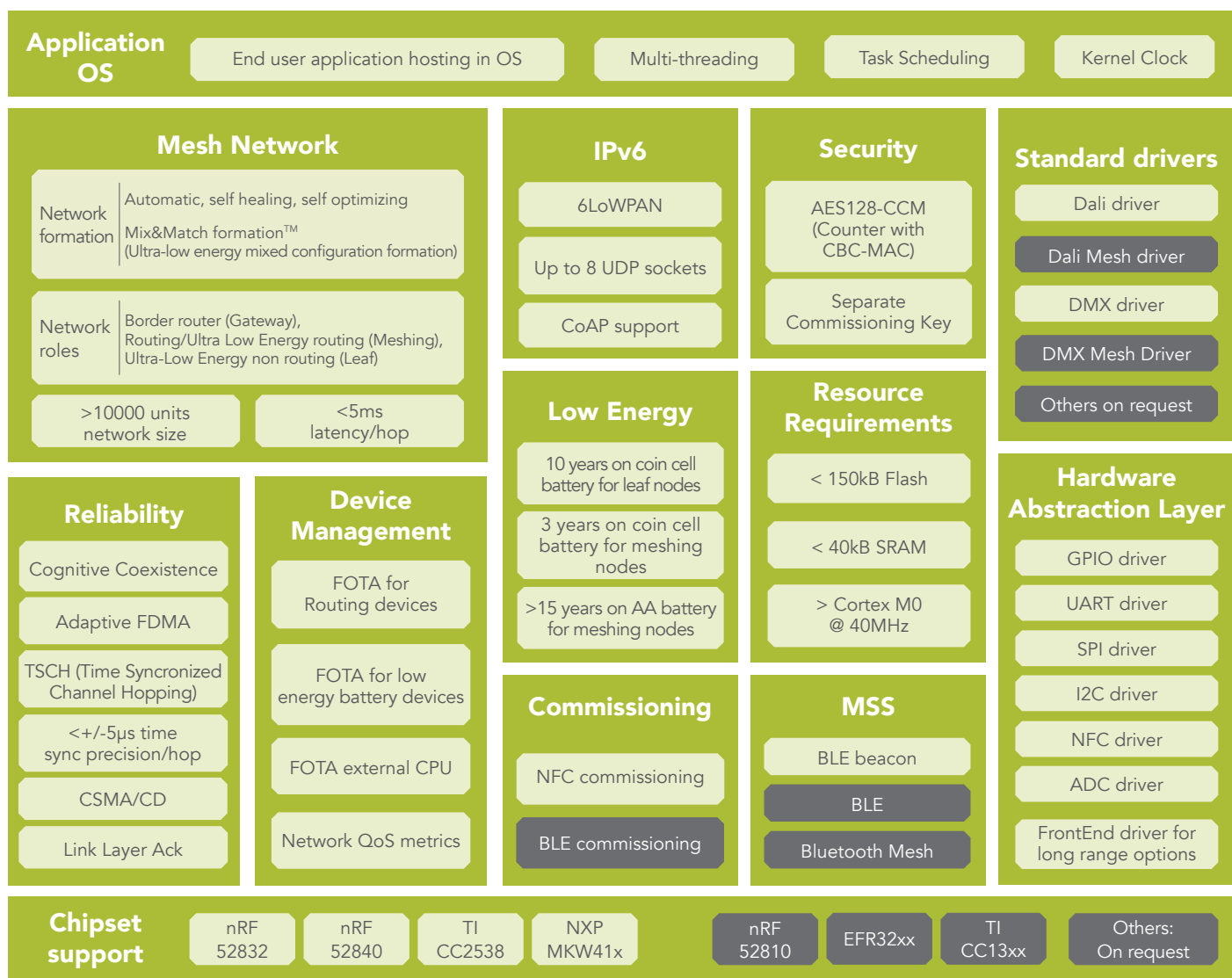
FIRMWARE UPGRADE

MiraOS comes with best in class firmware upgrade over the air (OTA) functionality for both MiraOS and the application even when it is hosted on external CPU. The MiraOS OTA update functionality provides future proof operation as new business critical applications FW is just a push on the button away.

CHIPSET SUPPORT

MiraOS has a wide range of chipset support and is highly portable to any new requested chipset. MiraOS is supporting multi standard chipsets like the newly released Nordic Semiconductors nRF52840.

Building blocks of MiraOS



MiraOS v2.1

Available standard feature

Planned feature, not available yet



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