

EVIDEN

Lifelink Extense

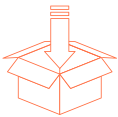
Compact Private 4G/5G wireless networks



Overview

Compact and complete private 4G/5G networks. Easy to use and deploy for Tactical and Campus use cases

Lifelink Extense is a compact radio network that brings reliable, low-latency connectivity to all your operations, increasing safety and security. It can connect all your critical operations in real time to any other product in the Eviden Lifelink Wireless portfolio. You can deploy it anywhere, any time and be your own operator.



All-in-one box, easy to deploy

- The Lifelink Extense 4G/5G, is very easy to deploy. Start-up time is less than 2 minutes.
- Compact, transportable, and available in a ruggedized IP65 transport / IP54 usage casing



Secure

- Lifelink Extense is fully secure. It supports AES 128, SNOW, ZUC integrity and ciphering support, standard MILENAGE and TUAK authentication, and HSS encryption.



Versions for every need

Tactical solution

- Lifelink Extense All-in-One 4G/5G: Includes a core and BBU, supporting up to 3 sectors in 4G, 1 sector in 5G.
- Ruggedized fanless version for harsh environments available.

Campus solution

Modular BBU to be connected to a separate core, available in the following configuration:

Lifelink Extense 4G/5G BBU Mezzo

- Each BBU can support up to 4 sectors in 4G / 1 sector in 5G

Lifelink xCore series

- Dedicated 4G/5G core configurations available, please see separate datasheets.



4G and 5G enabled

- Complies with 3GPP release 16
- Supports NB-IoT and LTE-M Cat.1
- Mission-critical services (MCx): MCPTT, MCVideo, MCDData can be optionally installed as VM
- Features evolved Multimedia Broadcast Multicast Services (eMBMS) in 4G
- SW upgradeable to 5G

Main differentiators

- **Flexible modular design** allows a customizable solution for specific customer demands and frequencies
- **Ruggedized MIL STD 810** (Shock & Vibration) options available
- **Lightweight:** less than 30 kg, excluding transport case
- Available capacity for 3rd party VMs
- **Range:** Up to 10 kilometers, depending on mast height, terrain and system configuration
- Extendable with Lifelink Run, Lifelink Extense and Lifelink xCore thanks to its modular design

Technical specifications



- Each Lifelink Extense All-in-One is a complete 4G/5G SA network consisting of:
 - ePC / 5G core
 - eNodeB/gNodeB
 - Radio head
- Lifelink Extense BBU features an eNodeB /gNodeB and Radio Head
- Remote radio heads for a range of different radio bands are available
- The system is available with a ruggedized casing (IP65 for transport; IP54 for usage)

Technical characteristics

3GPP Standard Functions	3GPP release 16 - 4G functions: MME, SGW, PGW, PCRF, HSS, eMBMS Gateway - 5G functions: AMF, NRF, PCF, AUSF SMF, UDM, UPF
Mission-Critical Features (option)	Optional support for Lifelink MCx Connect, Eviden's Mission Critical applications, installed on a VM on the Extense. Lifelink MCx Connect requires a separate license.
Available Bands	RRH covering LTE bands: B1, B2, B3, B5, B7, B8, B14, B20, B28, B28PPDR, B30, B31, B38, B39, B40, B41, B42, B43, B48. RRH covering 5G bands: N1, N2, N3, N5, N7, N8, N14, N20, N28, N30, N38, N39, N40, N41, N77, N78.
Max Power	2x20W (MIMO 2x2), 2x40W (MIMO 2x2), 2x2W (MIMO 4x4). The configuration options available depend on the selected band.
Security	All 3GPP standard security included: AES 128, SNOW, ZUC algorithms support. Standard integrity and ciphering support. Standard MILENAGE and TUAK authentication support. HSS encryption.
Startup time	Operational within 3 minutes.
Range (typical)	Up to 10 kilometers (depends on frequency, environment, mast, antennas...)
TPM (typical)	<600W (with Extense 4G N with 1*RH)
Dimensions and Weight	Lifelink Extense All-in-One: 19" x depth 450mm (without case) – 2U Core Network – 2U digital eNodeB ('BBU') – 1U optional 220AC/48VDC. Less than 30 kg without the case.
Power Supply	100-230V (48V DC as an option).
Packaging	Several packaging options are possible: transport case, rack mounting, ruggedized.
Environment Rating	IP65 during transport, IP 54 for usage.
Capacity	Several 1000 active UEs + several 1000 NB-IoT/LTE-M based on average traffic profile and numbers of RRUs.
Connectivity	Gigabit Ethernet (RJ45) USB 3.0 GNSS, RF antennas
Accessories	RRH mount kit, CPRI cable RRH 10m/20m/30m

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