

Nokia Siemens Networks Flexi Lite Base Station

All-in-one base station to enhance capacity and coverage

Nokia Siemens
Networks



The Nokia Siemens Networks Flexi Lite Base Station is a small all-in-one base station for WCDMA and LTE capacity and coverage enhancements.

The product is based on the award-winning Flexi Multiradio Base Station platform inheriting several years of experience, and a long track record of extreme field operations.

The main application of this extremely compact base station is to help deliver an improved mobile broadband experience by enhancing coverage and capacity both outdoors and indoors. Flexi Lite Base Station can be used to add capacity cells in dense urban areas if new frequency carriers are not available. It can also be deployed to cover traffic hotspots or to fill network coverage holes, as well as being suitable for improving coverage inside buildings, for example airports and railway stations.

Flexi Lite Base Station is equipped with built-in IP transport, which enables a cost-effective site solution and high-speed connections. Flexi Lite Base Station can be also used for multiradio and multiband site deployments supporting both WCDMA and LTE radio technologies.

The benefits of small cell deployments

Deploying small cell base stations is an extremely cost-effective way to boost network capacity and coverage in residential and commercial areas as well as in metropolitan traffic hotspots where most data usage occurs. They provide an efficient way to meet market growth while simultaneously

offloading voice and data traffic from the mobile CSP's macro network. Flexi Multiradio Base Station compact 6-sector solution and micro cell application has already been successfully used for capacity and coverage improvement.

Major capital and operational cost saving opportunities

The Flexi Lite Base Station capacity, output power and cost are all optimized for small cells. The base station's small size and light weight reduces site and infrastructure CAPEX significantly for communications service providers (CSP).

The Flexi Lite Base Station offers CSPs new site deployment possibilities thanks to its compact size and light weight which make it extremely easy and fast to deploy. This brings further savings in the form of easier site acquisition and lower rental costs, allowing CSPs to extend coverage to areas that were previously inaccessible. One person can deploy Flexi Lite Base Station, further reducing the installation cost.

The base station also features low power consumption while delivering high capacity to reduce running costs even more.

Visually discrete

Flexi Lite Base Station can be camouflaged easily to blend with the surrounding environment making it virtually unnoticeable as a base station. In addition, this small and light base station is well suited to the needs of installations in more visible locations such as exterior walls, billboards, lamp-posts and more. Flexi Lite Base Station is easy to conceal in dense urban environments where aesthetics are of prime importance.

Creating more value with customized services

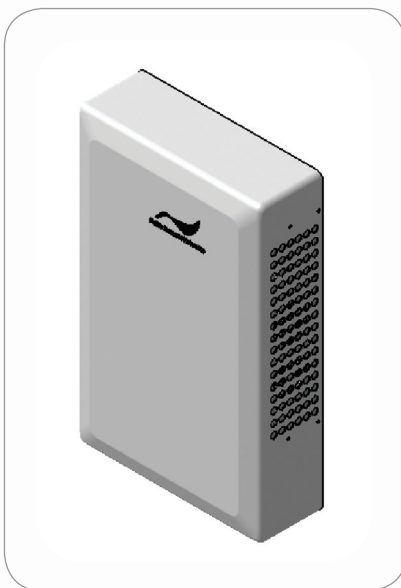
The Flexi Lite Base Station is supported by Nokia Siemens Networks services. Tailored services, an exhaustive resource bank and efficient processes all combine to help CSPs perform better. We use our experience of successful deployments in multi-vendor environments, greenfield and modernization projects to improve the experience of our customers and their subscribers.

In line with all Nokia Siemens Networks network elements, Flexi Lite Base Station is managed by the multi-technology, multi-vendor NetAct OSS platform which enables CSPs to manage their entire network operations from a single point.

The Nokia Siemens Networks SON Suite supports GSM, WCDMA and LTE, as well as multi-vendor features using OSS support and open 3GPP interfaces. It boosts efficiency and improves the speed and quality of mobile communications. With Automated Neighbor Relations and SON Plug & Play accelerated rollout, Nokia Siemens Networks can automate and speed up the integration of the base station into the network.

Technical Data

Installation options:	Wall, pole, inside cabinet (any position possible)
Frequency bands:	The product supports UMTS band I, other bands according to market and operator requirements Up-link 1920-1980 MHz Down-link 2110-2170 MHz
Maximum peak rates:	HSPA up to 84 Mbps LTE up to 150 Mbps
Multi-radio configuration:	Supports both WCDMA/HSPA and LTE
Transport technology:	IP Transport with Ethernet (Fiber and Wireline) and xPON
Height x width x depth:	380 x 325 x 86 mm (without optional items and installation material)
Volume:	10 L (standalone BTS)
Weight:	10 kg (standalone BTS)
Operating temperature range:	-35 to +55°C
Power supply:	100-240 VAC, 50/60 Hz
Output power:	1-Omni @ 5 W 1+1 @ 5 W 2+2 @ 2.5 W 1-Omni @ 5 W + 5 W MIMO 2-Omni @ 2.5 W + 2.5 W MIMO
Ingress protection class:	Outdoor: IP65



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