



MINI-LINK 6363

MINI-LINK 6000

With unmatched flexibility, MINI-LINK 6000 provides the right solution for each part of the network, all deployment scenarios and site types, enabling sound investments in line with the service providers' needs. The portfolio offers both split mount and all outdoor shorthaul as well as long haul solutions covering the complete microwave spectrum from 4 up to 80 GHz. MINI-LINK 6000 offers advanced packet functionality including advanced sync and L3 VPN, using IP/MPLS, as well as L2. All network scenarios are supported with superior performance combined with the lowest possible cost of ownership.

Ericsson is the market leader in microwave transmission and has over 40 years of microwave experience with more than 4.5 million radio units delivered to over 180 countries.

High capacities in a compact format

The MINI LINK 6363 is to be used in split systems together with nodes MINI-LINK 6000, MIN-LINK TN and MINI-LINK CN. It connects to the node via a coaxial cable. In a very compact format, it supports gigabit capacities in traditional frequency bands as well as in E-band. The high output power caters for the need of high capacities and high availability, providing superior network performance.

World's smallest high power radio

MINI-LINK 6363 builds on the strengths from the world's most widely deployed microwave radio MINI-LINK RAU2 X. The footprint has been reduced by 65% and weight by 35% compared to RAU2 X. This enables easier and faster installations as well as less wind load on towers.

Two versions

MINI-LINK 6363 comes in two versions. MINI-LINK 6363, optimized for highest system gain, and MINI-LINK 6363/2 optimized for lowest power consumption.



Superior output power

MINI-LINK 6363 has the highest output power in the split mount radio market, that is maintained also for higher modulations. For 24-42 GHz the output power has been increased with up to 4 dB compared to RAU2 X's already high specification. This means more capacity, higher availability and smaller antennas. In combination with functionality in the node, a superior system gain is obtained. High output power is available as a SW license, which makes it possible to step up in modulation and capacity when needed, following a pay as you grow approach.

Best in class dynamic range

MINI-LINK 6363 has best in class dynamic range, which is crucial to reduce interference (using ATPC), reduce power consumption and to be able to install short hops.

Reduced power consumption

The power consumption in MINI-LINK 6363 has been reduced compared to RAU2 X. For 6-11 GHz by up to 10 W. For MINI-LINK 6363/2 the power consumption has been optimized even further, typically by an additional 25% vs MINI-LINK 6363.

High capacities in traditional frequency bands

The radio unit also supports 112 MHz wide channels and a modulation of 8k QAM (8192 QAM), which provides capacities over 1 Gbps.

World's first split mount E-band radio

MINI-LINK 6363 offers a cost efficient access to the E-band spectrum, with reuse of nodes and coaxial cabling. It supports both TDM and packet transport. Gigabit capacity is provided through 1024 QAM modulation support. It enables Multi-band Booster in split mount configurations, in combination with a traditional frequency band.

Increased ingress protection

The radio unit can be installed in very harsh environments as it fulfills IP66 protection against dust and water.

Backward compatibility

MINI-LINK 6363 is hop compatible with the MINI-LINK RAU2 X. If a radio unit needs to be upgraded, the antenna and radio cable can be reused.

ATEX certified

With ATEX certification MINI-LINK 6363 can be used in potentially explosive atmospheres (Zone 2).

Modular antennas and flat panel antennas

MINI-LINK 6363 uses the same antenna portfolio as MINI-LINK 6364 and MINI-LINK 6365. The 0.3-1.8 m reflector antennas are modular, making them upgradeable from single to dual polarization without the need for realignment. This is done by replacing the interface only. With high focus on visual appearance and minimized size, Ericsson has created the world's smallest outdoor unit (radio+antenna) in traditional bands with a range of flat panel antennas. Since antenna performance is key to secure network performance, the flat panel antennas are guaranteed to be ETSI class 3 compliant and typically close to ETSI class 4 compliance.

Technical specification MINI-LINK 6363

Radio link	Capacity: 1.4 Gbps
	Channels: 7 – 112/125 MHz
	Modulation: C-QPSK and 4 – 8k QAM
	TX power: -10 to +30 dBm
Frequencies	6 – 42 and 80 GHz (MINI-LINK 6363) 13, 15, 18, 23 and 38 GHz (MINI-LINK 6363/2)
Weight	2.5 kg / 5.5 lbs
Dimensions (H × W × D)	179 × 197 × 79 mm (2.8 liters) 7.0 × 7.8 × 3.1 in (170 in ³)
Power supply	+57 VDC
Power consumption	22 W (MINI-LINK 6363) 15 W (MINI-LINK 6363/2)
Reflector antennas	0.2 – 3.7 m / 9 in – 12 ft HP, HPX, SHP and SHPX
Flat panel antennas	0.1 m / 5 in SHP
Integrated configurations	1+0 to 4+0
Interfaces	Modem – Coaxial Antenna – Waveguide Alignment – 3.5 mm audio jack
Standards and recommendations	ETSI, ECC, FCC, IC, IEC, ITU, ATEX
Temperature range	-45 to +60 °C / -49 to +140 °F
Ingress protection	IP66
Nodes	MINI-LINK 6000 MINI-LINK TN MINI-LINK CN
Network management	ServiceOn Element Manager IP Transport NMS Ericsson Network Manager