MINI-LINK 6363

MINI-LINK the Network Node
The increasing complexity of today's and future networks requires flexible and well-integrated microwave nodes. Building an efficient microwave backhaul network with end-to-end performance in mind, requires high node capacity, compact and modular building practice, advanced packet functionality and features that are aligned and backward-compatible across different network nodes. The microwave nodes also need to be capable of handling single hops as well as advanced hub sites for larger networks. The MINI-LINK network node has shown to reduce product investment by 40 percent compared with a 'hop-by-hop' approach. By combining MINI-LINK outdoor units and indoor units, all network scenarios are supported with superior performance and lowest possible cost of ownership.

Ericsson is the market leader in microwave transmission and has over 40 years of microwave experience with more than 3.8 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 6600, MINI-LINK 6366, 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 the new 112 MHz wide channels and a modulation of 4096 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
0.3-1.8 m antennas are modular, making them upgradeable from single to dual polarization without the need for realignment. This is done by replacing the interface only.

Flat panel antennas
With high focus on visual appearance and minimized size, Ericsson has created the world's smallest outdoor unit (radio+antenna) in traditional bands. Since antenna performance is key to secure network performance, the 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 Channel: 7 – 112/125 MHz Modulation: C-QPSK and 4 – 4096 QAM TX power: -10 to +30 dBm
REFLECTOR ANTENNAS	0.2 – 3.7 m / 9 in – 12 ft HP and HPX SHP and SHPX
FLAT PANEL ANTENNAS	0.1 m SHP 28 – 42 GHz, 30 – 34 dBi
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 l) 7.0 × 7.8 × 3.1 in (170 in^3)
POWER SUPPLY	+57 VDC
POWER CONSUMPTION	20 W (MINI-LINK 6363) 15 W (MINI-LINK 6363/2)
INTEGRATED CONFIGURATIONS	1+0, 1+1, 2+0 and 4+0
INTERFACES	Coaxial (modem) Waveguide (antenna) Alignment port
STANDARDS AND RECOMMENDATIONS	ETSI, ECC, FCC, IC, IEC, ITU, ATEX
ENVIRONMENTAL SPECIFICATIONS	-45 to +60 °C / -49 to +140 °F IP66
NODES	MINI-LINK 6600 MINI-LINK 6366 MINI-LINK TN MINI-LINK CN
NETWORK MANAGEMENT	ServiceOn Element Manager IP Transport NMS Ericsson Network Manager

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