



MINI-LINK 6363

MINI-LINK the Network Node

The increasing complexity of today's and future networks require 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 3.5 million radio units delivered to over 175 countries.

High capacities in a compact format

The MINI LINK 6363 is to be used in split systems together with indoor units MINI-LINK 6600, MIN-LINK TN and MINI-LINK CN. It connects to the indoor unit 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.



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 5 dB compared to RAU2 X's already high specification. This means more capacity, higher availability and smaller antennas. In combination with functionality in the indoor units, 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 also 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 the power consumption has been reduced by up to 10 W.

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 indoor units 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.

Flat panel antennas

Ericsson is introducing high performing 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 ETSI class 3 compliant.

Technical Specifications MINI-LINK 6363

RADIO LINK	Capacity: 1.4 Gbps
	Channel: 7 – 112 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 HP 28 – 42 GHz, 30 – 33 dBi
FREQUENCIES	6 – 42 and 70/80 GHz
WEIGHT	2.8 kg / 6.2 lbs
DIMENSIONS (H x W x D)	179 x 197 x 79 mm (2.8 l) 7.0 x 7.8 x 3.1 in (170 in3)
POWER SUPPLY	+57 VDC
POWER CONSUMPTION	20 W
CONFIGURATIONS	1+0, 1+1, N+0
INTERFACES	Coaxial (modem) Waveguide (antenna) Alignment port
STANDARDS AND RECOMMENDATIONS	ETSI, ECC, FCC, IC, IEC, ITU
ENVIRONMENTAL SPECIFICATIONS	-45 to +60 °C / -49 to +140 °F IP 66
INDOOR UNITS	MINI-LINK 6600 MINI-LINK TN MINI-LINK CN
NETWORK MANAGEMENT	ServiceOn Element Manager IP Transport NMS