MINI-LINK 6352

MINI-LINK the Network Node

Building an efficient microwave backhaul network with end-to-end performance in mind; requires high node capacity, compact and modular building practice and advanced packet functionality. The microwave nodes also need to be capable of handling single hops as well as advanced hub sites for larger networks. 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 3.7 million radio units delivered to over 180 countries.

Very High Capacity Microwave

MINI-LINK 6352 is an all outdoor microwave node, and part of the successful MINI-LINK portfolio.

MINI-LINK 6352 provides up to 10 Gbps capacity over a 2000 MHz channel in the E-band (70/80GHz). MINI-LINK 6352 also supports 2+0 Radio Link Bonding as well as Multi-Band Booster and 1+1 Equipment Protection (EQP). For maximum connectivity, MINI-LINK 6352 is equipped with multiple 10 GE interfaces.

Network scenarios

MINI-LINK 6352 has an embedded L2 switch, enabling full aggregation and switching between all traffic ports, that makes it ideal for multiple combinations of mobile backhaul solutions. Use it as an all outdoor solution, aggregating multiple south-bound directions to one high capacity northbound direction. MINI-LINK 6352 is also suitable for cascading or as a repeater solution. It can also be connected to any other MINI-LINK indoor unit using available Ethernet ports.

Technical specification MINI-LINK 6352

MINI-LINK 6352 is also suitable in applications such as Fixed Broadband, Fiber extension, and Enterprise connectivity.

Multi-band Booster
Multi-band booster enables E-band to be used over longer distances and much wider areas outside dense urban areas. By bonding MINI-LINK 6352 with MINI-LINK 6600 or TN (6-42 GHz), the hop-length can be extended up to three times with high performance.

Network Synchronization
MINI-LINK 6352 supports transport of synchronization signal across the hop. The synchronization signal is carried over the radio hop without occupying any bandwidth allocated for payload traffic. MINI-LINK 6352 also supports PTP synchronization according to IEEE 1588v2.

Low Delay
The delay performance is typically as low as 30 up to 90 µs, depending on channel separation, enabling best possible end user experience.

Adaptive Modulation
The radio link supports hitless adaptive modulation, adaptive coding and adaptive baud rate, for BPSK–512 QAM which provides an error free transmission and constant delay variation securing sync performance.

Header Compression
MINI-LINK 6352 supports multi-layer header compression as well as payload compression enabling typically 20% extra capacity.

Line-of-Sight (LOS) and Non-Line-of-Sight (NLOS)
MINI-LINK 6352 supports both LOS and NLOS configurations. This will give operators greater flexibility to deploy outdoor small cells, enabling high network performance.

RADIO LINK	10 Gbps over 2000 MHz channel 125, 250, 500, 750, 1000, 1500 & 2000 MHz TX power: +15 to +18 dBm BPSK-512 QAM
ANTENNAS FOR INTEGRATED INSTALLATION	0.1/0.2/0.3/0.6 m (0.3/0.7/1/2 ft) single polarized antennas 0.3/0.6 m (1/2 ft) dual polarized
FREQUENCY	71 – 76/81 – 86 GHz
WEIGHTS	4 kg/8.8 lbs
DIMENSIONS (D X W X H)	108x259x321 mm/ 4.2 x10.2x12.6 inch
POWER SUPPLY	-48 V DC or Power over Ethernet
POWER CONSUMPTION	Typical value 58 W
CONFIGURATION	1+0 • 2+0 Radio Link Bonding • 1+1 EQP • Multi-band Booster (with MINI-LINK TN/6600)
INTERFACES	3xOptical 10GE / 2.5GE / 1G BASE-X IEEE802.3 1xPoE 1 GE O&M: 10/100 BASE-T IEEE802.3
STANDARDS AND RECOMMENDATIONS	ETSI, ECC, FCC, IC, IEC, IEEE, IETF, ITU
ENVIRONMENTAL SPECIFICATION	-33°C to +55°C / -27F to +131F IP 65
DATA COMMUNICATION NETWORKS	DCN over traffic interface via VLAN IP based DCN for transport of O&M data
QUALITY OF SERVICE	PCP • DSCP • MPLS TC • 8 queues of configurable length • WRED or Tail-drop queue management • Strict priority and weighted fair queuing scheduling mechanism
NETWORK MANAGEMENT	• ENM • IPT-NMS • ServiceON EM • CLI • GUI via Built-in webpage