



# MINI-LINK 6600

## **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 3.5 million radio units delivered to over 180 countries.

## **High Capacity Node and Radio Link**

MINI-LINK 6600 is the high capacity indoor node in a split-mounted microwave system. It supports

switching capacity up to 90 Gbps, multiple high capacity radio links with a capacity up to 2.5 Gbps. With high modulation schemes 8k QAM, XPIC, MIMO, Multi-band booster, wide channels like 112MHz and multiple 10G interfaces it ensures deployment flexibility and future readiness.

## **Advanced Packet Functionality**

MINI-LINK 6600 has an integrated Ethernet switch/router supporting Customer and Provider mode switching, IP Routing and MPLS L3 VPN.

## **Flexible and modular building practice**

In MINI-LINK 6600, compact nodes as well as modular nodes using plug-in units are available. This makes it easy to customize configurations. The full range of MINI-LINK outdoor units can easily be combined in many different ways:



traditional frequencies (6-42 GHz), V-band 60 GHz, E-band 70/80 GHz, single and dual carrier, Coax and Ethernet interface.

### Efficient network migration

MINI-LINK 6600 support any network migration from one generation of Radio technology to next on the Road to 5G. There is a topology flexibility in MINI-LINK 6600 to build hop based, tree, stars or ring based topologies to best support the network need.

For cost efficient migration MINI-LINK 6600 is hop compatible with MINI-LINK TN. Upgrading to MINI-LINK 6600, the radio units, antennas, and cabling can be reused.

## Technical specification

### MINI-LINK 6600

<b>RADIO LINK</b> 5-80 GHZ*	Using MINI-LINK 6363 up to 4096QAM: -1.4 Gbps 1+0 in 112 MHz (ETSI) -2.5 Gbps using 2+0 RLB in 112 MHz (ETSI) -1 Gbps 1+0 in 80 MHz (ANSI) -2 Gbps using 2+0 RLB in 80 MHz (ANSI) Using MINI-LINK 6363 80GHz up to 1024QAM -1.1 Gbps 1+0 in 125 MHz (ETSI) -2.2 Gbps 2+0 RLB in 125 MHz (ETSI)
<b>RADIO LINK</b> 60/70/80 GHZ*	1 Gbps over 200 MHz using MINI-LINK 6351 10 Gbps over 2000 MHz using MINI-LINK 6352
<b>RADIO LINK</b>	ATPC, Radio Link Bonding, XPIC, Adaptive Coding Modulation, Multi-layer Header Compression, Multi-band Booster, AES encryption over the hop, 4x4 MIMO
<b>PROTECTION &amp; CONFIGURATION</b>	Up to 2+2 Hot standby and Space Diversity Up to 4+0 Radio Link Bonding (RLB) Up to 4+0 RLB using different CS combinations ERP, RSTP, SNCP Network protection MSP 1+1 Equipment protection
<b>DIMENSIONS</b> (H X W X D)	6651/3: 44x444x171 mm, 1.7x17.6x6.8 inch 6651: 44x444x240 mm, 1.7x17.6x9.4 inch 6654: 44x446x240 mm, 1.7x17.6x9.4 inch 6655: 66x446x240 mm, 2.6x17.6x9.4 inch 6691: 44x446x240 mm, 1.7x17.6x9.4 inch 6693: 66x446x240 mm, 2.6x17.2x9.4 inch 6694: 89x446x240 mm, 3.6x17.6x9.4 inch 6692: 133x446x240 mm, 5.2x17.5x9.4 inch
<b>POWER SUPPLY</b>	-48 V DC, Power redundancy
<b>ENERGY EFFICIENCY</b>	Traffic Aware Power Save
<b>POWER CONSUMPTION</b> (EXCLUDING RADIO)	6651/3: 30W 1+0 configuration 6651: 46W 1+0 configuration 6651/4: 64W 1+0 configuration 6654: 49W 1+0 configuration 6655: 57W 1+0 configuration 6691: 54W 1+0 configuration 6693: 52W 1+0 configuration 6694: 59W 1+0 configuration 6692: 64W 1+0 configuration
<b>OPERATIONAL TEMPERATURE</b>	-25°C to +65°C / -13F to +140F -25°C to +60°C / -13F to +131F (6651/3)
<b>TRAFFIC INTERFACES</b>	E1, CES SAToP, 10/100/1000 BASE-T IEEE802.3, Optical 1000BASE-SX/LX/ZX/BX, GE CWDM 10G BASE-LR/ER/ZR, 10GE DWDM
<b>SYNCHRONIZATION</b>	Sync E, 1588v2 (Telecom profile G.8275.1), NTP transparent, E1 and 2MHz, Frequency (G.8265.1), PTP monitoring IEEE1588v2.1 Annex M
<b>SWITCHING/ROUTING</b>	IEEE 802.1Q-2011 Customer & Provider Bridge, Bridge Virtual Interface, LAG/LACP, ERP, H-QoS, BNM, MAC Swap loopback, VRF, OSPF, eBGP, IS-IS, RSVP-TE FRR, RSVP-TE Path Protection, IP/MPLS L3 VPN, LDP, BFD, BGP FRR, MP-BGP, IPv4 ACL
<b>OAM</b>	Link OAM, Service OAM FM/PM, Y.1731, TWAMP reflector Light
<b>DCN</b>	DCN over VLAN, Routed DCN (OSPF) DCN over VLAN for L1 connection DCN over VRF (MPLS)
<b>NETWORK MANAGEMENT</b>	Supported by ENM, IP transport NMS, Service ON, Node GUI and CLI SNMP v3, SSH, RADIUS, TACACS+
<b>STANDARDS &amp; RECOMMENDATIONS</b>	CEN/CENELEC, ETSI, ITU, IEC, IEEE, IETF

\* For antennas and frequency bands, please see MINI-LINK outdoor datasheets