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 and market leading split mount Radio Links up to 2,5Gbps using 112Mhz and 4096QAM modulation. It also supports 10G interfaces for high capacity interconnect or use of very high capacity E-band radio links.

Advanced Packet Functionality
MINI-LINK 6600 has an integrated Ethernet switch/router supporting Customer and Provider mode switching and 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

RADIO LINK 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)
RADIO LINK 60/70/80 GHZ*	1 Gbps over 200 MHz using MINI-LINK 6351 10 Gbps over 2000 MHz using MINI-LINK 6352
RADIO LINK	ATPC, Radio Link Bonding, XPIC, Adaptive Coding Modulation, Multi-layer Header Compression, Multi-band Booster, AES encryption over the hop, 4x4 MIMO
PROTECTION & CONFIGURATION	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
DIMENSIONS (H X W X D)	6651/3 44x448x172 mm, 1.7x17.6x6.8 inch 6651: 44x448x239 mm, 1.7x17.6x9.4 inch 6654: 44x448x240 mm, 1.7x17.6x9.4 inch 6655: 66x446x238 mm, 2,6x17,6x9,4 inch 6691: 44x448x240 mm, 1.7x17.6x9.4 inch 6693: 66x446x238 mm, 2.6x17.2x9.4 inch 6694: 89x448x239 mm, 3.6x17.6x9.4 inch 6692: 133x446x240 mm, 5.2x17.5x9.4 inch
POWER SUPPLY	-48 V DC, Power redundancy
ENERGY EFFICIENCY	Traffic Aware Power Save
POWER CONSUMPTION (EXCLUDING RADIO)	6651/3: 30W 1+0 configuration 6651: 46W 1+0 configuration 6654: 49W 1+0 configuration 6655: 57W 1+0 configuration 6691: 57W 1+0 configuration 6693: 52W 1+0 configuration 6694: 79W 1+0 configuration 6692: 84W 1+0 configuration
OPERATIONAL TEMPERATURE	-25°C to +65°C / -13F to +140F -25°C to +60°C / -13F to +131F (6651/3)
TRAFFIC INTERFACES	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
SYNCHRONIZATION	Sync E, 1588v2 (Telecom profile G.8275.1), NTP transparent, E1 and 2MHz, Frequency (G.8265.1)
SWITCHING/ROUTING	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
OAM	Link OAM, Service OAM FM/PM, Y.1731, TWAMP reflector Light
DCN	DCN over VLAN, Routed DCN (OSPF) DCN over VLAN for L1 connection
NETWORK MANAGEMENT	Supported by ENM, IP transport NMS, ServiceON, Node GUI and CLI SNMP v3, SSH, RADIUS, TACACS+
STANDARDS & RECOMMENDATIONS	CEN/CENELEC, ETSI, ITU, IEC, IEEE, IETF

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

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