



MINI-LINK™ E

High Performance Microwave Transmission

Ericsson's medium capacity point-to-point microwave solution, MINI-LINK E, is designed for operation in any type of network. The compact microwave radio contains cutting edge technology and provides maximum reliability. With a Mean Time Between Failure (MTBF) exceeding 30 years MINI-LINK E offers continuous high performance. Standardized interfaces ensure operation in all types of networks.

MINI-LINK E can be configured to meet any network requirement for capacity and range. It provides radio transmission links from 2 up to 17x2 Mbit/s, operating within the 7 to 38 GHz frequency bands.

MINI-LINK E terminals can be mixed-and-matched in any type of network: star, tree or ring. For protection, they can be configured either as a 1+1 system or as a ring structure. The MINI-LINK E product program comprises two versions to meet the requirements for cost-effective solutions in high-density networks:

- ◆ The flexible MINI-LINK E split for optimal solutions at multi-terminal sites
- ◆ The self-contained MINI-LINK E all-outdoor for minimum total site cost

MINI-LINK E Split

The split version comprises an indoor access module and an outdoor radio unit with antenna. The outdoor part holds all frequency dependent units and the indoor part holds all capacity dependent units. The indoor part is connected to the radio unit by means of a single coaxial cable and can be upgraded or reconfigured with plug-in units, providing optimal site flexibility. Configurations supporting up to four radios are available. Traffic capacity is software configurable facilitating network expansion without any hardware replacement. Software controlled site configuration and interconnections minimize site cabling, which means higher reliability and shorter installation time.

MINI-LINK E All-outdoor

The compact all-outdoor version, MINI-LINK E Micro, houses all transmission components thus eliminating the need for costly indoor site infrastructure. It is a cost-effective solution whenever easy site acquisition and fast start-up are key issues.

LAN-to-LAN Interconnection

The Ethernet Interface Unit (ETU) provides wireless connection of LANs over MINI-LINK E hops.

Cross-connect Functionality

The MINI-LINK Cross-connect Unit (MXU) supports protection switching for ring configuration, grooming on 64 kbit/s level and embedded management. It is fully compatible with the comprehensive Ericsson DXX family.

Wide Range of Antennas

To optimize each link, compact antennas are available combining minimum outdoor visibility with high performance. As a standard installation the antenna is integrated with the radio unit, but it can also be installed separately. Larger antennas for separate installation are also available.

Network Management

MINI-LINK Netman is a powerful element manager for centralized operation and maintenance of all MINI-LINK equipment. It can be used as a stand-alone system or integrated with a superior Network Management System (NMS) using a standardized SNMP interface.

Technical Data								
Frequency bands (GHz)	7.1-7.7	7.7-8.5	12.75-13.25	14.4-15.35	17.7-19.7	21.2-23.6	24.5-26.5	37.0-39.5
RF output power (dBm)	+21/28	+20/26	+18	+18/25	+17/24	+20/23	+10/18	+17
Receiver threshold (dBm) BER 10⁻³								
2x2 Mbit/s	-91	-91	-90	-91	-90	-90	-89	-85
4x2 and 8 Mbit/s	-88	-88	-88	-88	-87	-87	-86	-82
2x8 and 8x2 Mbit/s	-85	-85	-85	-85	-84	-84	-83	-79
34+2 and 17x2 Mbit/s	-82	-82	-82	-82	-81	-81	-80	-76
Frequency stability	± 10 ppm							
Channel spacing	3.5/7/14/28 MHz depending on capacity							
Antennas	0.2/0.3/0.6/1.2 m compact antennas for integrated and separate installation 1.8/2.4/3.0 m antennas for separate installation							
Traffic interfaces	ITU-T Rec G.703 balanced or unbalanced, Ethernet 10/100BaseT(x)							
DC supply	24-60 V nominal							
Power consumption	22 W (all-outdoor), 30-100 W (split depending on configuration)							
Weights and dimensions (HxWxD)	Radio unit integrated with a compact antenna 0.2/0.3/0.6 m 7.0/10.1/14.7 kg, 321x266x171/382x382x255/635x635x370 mm Access module (fully equipped) 1U/2U/4U (19") 3.7/9.4/16.3 kg, 43x483x280/88x483x280/176x483x280 mm							
Operational temperature	-50°C to +60°C (outdoor, full functionality) -20°C to +60°C (indoor, full functionality)							
Standards and recommendations	CEN/CENELEC, ETSI, ITU, IEC, IEEE							

All technical data is typical and is subject to change without notice

Ericsson Microwave Systems AB
Transmission Mobile Systems
SE-431 84 Mölndal, Sweden
Tel. +46 31 747 00 00
Fax. +46 31 27 72 25
www.ericsson.com

AE/LZT 110 423 R6
© Ericsson Microwave Systems AB 2001