



# MINI-LINK 6355/6356

## MINI-LINK 6000

With unmatched flexibility, MINI-LINK 6000 provides the right solution for each part of the network, all deployment scenarios and site types, enabling sound investments in line with the service providers' needs. The portfolio offers both split mount and all-outdoor short haul as well as long haul solutions covering the complete microwave spectrum from 5 up to 80 GHz. MINI-LINK 6000 offers advanced packet functionality including advanced sync, L2, L3 VPN using IP/MPLS, and efficient power savings solutions. Future proof your network with superior performance combined with the lowest possible cost of ownership.

Ericsson is the market leader in microwave transmission and has over 40 years of microwave experience with more than 5 million radio units delivered to over 180 countries.

## MINI-LINK 6355/6356 – high-capacity E-band node

A network node for the future requires high node capacity which means high capacity for switch, radio links and interfaces.

MINI-LINK 6355 and the MINI-LINK 6356 are all-outdoor nodes with a switch capacity of 142 Gbps, capable of delivering a capacity of 10/20 Gbps over 1+0/2+0 links and has multiple 25 GE interfaces. The MINI-LINK 6355 & the MINI-LINK 6356 also supports Multi-band Booster configurations using the hierarchical Radio Link Bonding (hRLB) mechanism and can in such configurations deliver up to 25 Gbps together with MINI-LINK 6600/ MINI-LINK 6366/MINI-LINK 6371.

The MINI-LINK 6355 has a superior system gain with a transmitting power of up to **+24 dBm**.

The MINI-LINK 6356 has a superior system gain with a transmitting power of up to **+26 dBm**.

### Advanced packet handling

A microwave network node needs to have integrated Ethernet switching functionality, reducing the cost and complexity by not needing external equipment. Hierarchical QoS enables sharing of networks between several operators with multiple technologies.

### Network scenarios

MINI-LINK 6355 & MINI-LINK 6356 are packet only all-outdoor nodes optimized for high-capacity hops.

Thanks to the high-capacity integrated switch and multiple 25 GE ports it can be used as a full all-outdoor solution aggregating multiple south-bound directions to one high-capacity northbound direction.

MINI-LINK 6355 & MINI-LINK 6356 are also suitable in applications such 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 6355 or MINI-LINK 6356 with MINI-LINK 6600/6366/6371 the hop-length can be extended up to three times.



### Network Synchronization

MINI-LINK 6355 & MINI-LINK 6356 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. Supports SyncE and PTP synchronization according to IEEE 1588v2.

### Low latency

The latency is typically as low as 30  $\mu$ s up to 90  $\mu$ s, depending on channel bandwidth, enabling best possible end user experience.

## Technical specification MINI-LINK 6355 & 6356

Radio link 71-76/81-86 GHz	Capacity: <ul style="list-style-type: none"><li>- 10 Gbps @ 1+0</li><li>- 20 Gbps @ 2+0</li><li>- 25 Gbps @ MBB (hRLB)</li></ul>
	CS (MHz): <ul style="list-style-type: none"><li>- 62.5, 125, 250, 500, 750, 1000, 1500 &amp; 2000</li></ul> Modulation: BPSK/2 - 1024 QAM TX power max: +24 dBm (MINI-LINK 6355) TX power max: +26 dBm (MINI-LINK 6356)
Multi-Band Booster (hRLB)	25 Gbps [1 direction]
Configurations	1+0 2+0 RLB w/wo XPIC w/wo EQP 3+0 Multi-band Booster (hRLB)
Interfaces	3 x optical 25GE/10GE/1GE (SFP28/SFP+/SFP) 2 x electrical 1GE BASE-T Local O&M: 100 BASE-T
Weight	6 kg / 13 lbs
Dimension (H x W x D)	282×303×126 [mm] / 11.1×11.9×4.9 [inches]
Power supply	-48 V DC
Environmental specification	Temp range: -33°C to +55°C / -27°F to +131°F IP66
Synchronization	G.8275.1 TC & BC - 1588 PTP Time/Phase G.8265.1 1588 - PTP Frequency Synchronous Ethernet
Data Communication Networks	DCN over VLAN Routed DCN (IPv4 & IPv6)
O&M	Link OAM Service OAM FM/PM, Y.1731 TWAMP Reflector Light
Switching	IEEE 802.1Q-2011 Customer and Provider Bridge, Bridge Virtual Interface, LAG/LACP, RSTP, ERP, H-QoS, BNM, MAC Swap loopback
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	Supported by ENM, ETAC, Node GUI, CLI and Netconf/YANG SNMPv3, SSH, RADIUS, TACACS
Standards & recommendations	ETSI, ECC, FCC, IC, IEC, IEEE, IETF, ITU