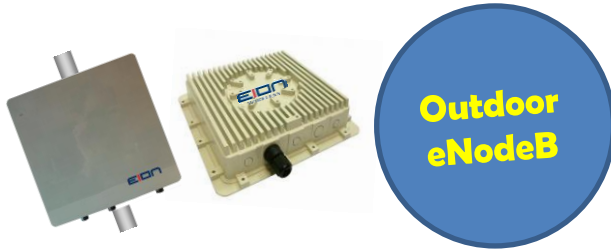


MOBILINK 1000 eNodeB

Single Cell Multi-Platform eNodeB



OVERVIEW

Mobilink 1000 is a small form factor ultra cost effective FD & TD-LTE eNodeB providing 24 dBm (FDD) or 27 dBm (TDD) TX power and supporting single cell. It is intended for outdoor deployments.

Mobilink 1000 has significantly compact range and increased coverage capabilities over conventional eNodeBs for enterprise market. It offers N-type connectors for mounting different external antenna options and SMA connectors for GPS support for time synchronization to complement different backhaul transport time synchronization methods.

For connection into the network the Gigabit Ethernet interface on the Mobilink 1000 can connect to a wired backbone, or seamlessly to an EION StarPlus network or our high capacity Teralink network for wireless backhaul where Gigabit Ethernet is provided as standard.

EION Mobilink can be configured as a standalone eNodeB, or as part of a group of eNodeBs managed by EION's Network Controller. Mobilink is a solution both for rural and urban deployments that provide superior coverage and capacity. Mobilink provides carrier grade RAN solution.

Mobilink 1000 interoperates seamlessly with third party EPC vendor solutions and authentication solutions.

Mobilink 1000 supports Bands 3, 7, 38, 40, 41 and 42.

PRODUCT FEATURES

- Receiver gain enhanced for compact range and coverage capability, 24 dBm (FDD), 27 dBm (TDD) total transmit power
- Available with optional antenna pack for quick setup and installation
- Outdoor and indoor support operation in Bands 3, 7, 38, 40, 41 and 42
- Supporting multivendor LTE compliant devices
- Gigabit Ethernet connectivity
- Client devices – Indoor, Outdoor, Dongle
- Supports mobility access
- GigE interface for connection to StarPlus for flexible backhaul options
- Variety of Antenna options: SISO/MIMO in Directional, 60°, 90°, 120°, and 360° (Omni)
- GPS/ QZSS/ GLONASS/ BeiDou
- 5, 10, 15, 20 MHz channels
- Ruggedized outdoor enclosure, IP67

Band	Frequency (MHz)	FDD/TDD
3	1710 - 1785, 1805 - 1880	FDD
7	2500 - 2570, 2620 - 2690	FDD
38	2570 - 2620	TDD
40	2300 - 2400	TDD
41	2496 - 2690	TDD
42	3400 - 3600	TDD

ORDERING INFORMATION

Product Name	Product Description	Product Code
Mobilink 1000	FDD Band 3, 1.8 GHz Outdoor LTE eNodeB Compact Range	MT-OD-ENT-03-1
Mobilink 1000	FDD Band 7, 2.6 GHz Outdoor LTE eNodeB Compact Range	MT-OD-ENT-07-1
Mobilink 1000	TDD Band 38, 2.6 GHz Outdoor LTE eNodeB Compact Range	MT-OD-ENT-38-1
Mobilink 1000	TDD Band 40, 2.3 GHz Outdoor LTE eNodeB Compact Range	MT-OD-ENT-40-1
Mobilink 1000	TDD Band 41, 2.5 GHz Outdoor LTE eNodeB Compact Range	MT-OD-ENT-41-1
Mobilink 1000	TDD Band 42, 3.5 GHz Outdoor LTE eNodeB Compact Range	MT-OD-ENT-42-1
Mobilink 1000 Antenna Pack	One Transceiver per unit	MT-OD-ENT-ANT-1

DATASHEET
Mobilink 1000

Radio	
Topology	Standard Wireless LTE Topology
Antennas	2x2 MIMO per radio with an optional antenna pack
Frequency Range	1.7 – 1.8 GHz, 2.3 GHz – 3.6 GHz (Please check below LTE Bands for exact frequencies),
Channel Size	5, 10, 15, 20 MHz
Transceiver	1 Transceiver per unit
RF Connectors	N-Type for external antenna connectors
Output Power	Radio: +24 dBm (FDD)/+27 dBm (TDD) per physical port
GPS Connectivity	GPS – SMA, Data – N- Type
Time Synchronization	GPS, QZSS, GLOSNASS, BeiDou (PTP 1588 v2, SyncE)
Duplexing Format	LTE TDD, LTE-FDD
LTE Bands	3, 7, 38, 40, 41, 42

Network Support	
Medium Access Control	Standard LTE
Network Connection	Gigabit Ethernet Connectivity, Auto MDI-X RJ45 10/100/1000 Mbps Ethernet, Auto Negotiation
Traffic Management	Standard Layer 2, Layer 3 Traffic Management through scheduler and rate control
Filtering	RF Sniffing
DHCP	DHCP server in controlling wireless side, NAT
IPv6	IPv6 pass through in bridge mode
QoS	IP and Port based prioritization

Wireless Networking	
Output Power Management	Manual
Release	3GPP Release 9 (upgradeable to Release 10)

Security	
Management Access	Username and password
Standard	3GPP standard LTE air interface security, IPSEC AES Encrypted tunnels on all network connections

Management	
Remote Management	OAM (CM, PM, FM, Diagnostics), Web-GUI, SNMP v2
Management Access	Over the Air/Wired, Secure Boot through digital signatures of all executables
Installation Management	Easy installation
Backup Configuration	Download backup configuration files
Software Upgrade	Web-GUI

Physical, Electrical, and Environmental	
Mounting Bracket	Yes, 2-Axis pole/wall
Power Consumption	< 25W
Input Voltage	100-240V, 50/60 Hz AC with 56 V PoE 802.3af
Operating Temperature	-30 C to +50 C
Environmental	RoHS and WEEE
Enclosure	Single Unit, Die Cast NEMA 4x; IP67
Relative Humidity	0 to 100%, condensing
Radio Certification	~FCC
Lightning Protection	Built-in ESD
Dimensions	Radio: 270 mm x 200 mm x 65 mm (Excluding antennas)
Weight	Radio: ~2 kg, less than 4 kg With Antenna Pack: 3.5 kg

~ in progress

