

# AxxceLTE™ eNodeB

NEXT GENERATION PERFORMANCE. UNPARALLELED VALUE.

## Benefits:

- Easy to install and operate
- Scalable architecture allowing for growth in the network
- Robust design suitable for the most demanding markets
- Can be combined with Axxcelera's AxxceLTE™ μEPC to create a complete broadband access network solution



## AxxceLTE™ eNodeB Overview:

The AxxceLTE™ eNodeB product family provides LTE wireless access over a wide range of frequency bands in a compact outdoor design. The family supports all-in-one and distributed architectures facilitating easy expansion while protecting prior capital investment. The best-in-class system can be configured to provide optimal performance in the carrier, wireless ISP, industrial, public safety and private markets.

## Key Features:

- Multi-sector support in a compact all-outdoor installation footprint
- Flexible deployment options
- Optimum operational simplicity and efficiency
- Configurable high performance MIMO radio of either 2 x 5W (low-power mode), 4 x 5W or 2 X 10W
- Multi-band operation: 700MHz to 3.8GHz
- Integrated Metro-Ethernet switch
- Provides Remote Electrical Tilt and 1GbE Power-Over-Ethernet interfaces

## Axxcelera Broadband Wireless

Axxcelera Broadband Wireless is a wireless infrastructure company that develops technology for the deployment of broadband wireless communications. Formed in 2001 the company has a strong track record of providing wireless broadband platforms that bridge the last mile, currently replacing the local loop for corporate, small business and residential subscribers.

## AxxceLTE™ eNodeB Specifications:

3GPP compliance .....	Release 9 with software upgrade to Release 10
Duplexing mode .....	TDD and FDD support
Channel Bandwidth .....	1.4, 3, 5, 10, 15, 20MHz
Channel Capacity .....	Up to two 20MHz channels
Multi-band support .....	Broadband 650-1450MHz or 1750-3800MHz
Transmitter power output .....	10W model: 2*5W or 4*2.5W, 2.5% EVM max 20W model: 2*10W or 4*5W, 2.5% EVM max
Receiver Noise figure .....	Less than 4dB
MIMO support .....	2x2 or 4x4 (SU-MIMO and MU-MIMO support)
Peak data rates.....	2x2 MIMO: DL @ 150Mbps, UL @ 75Mbps 4x4 MIMO: DL @ 300Mbps, UL @ 150Mbps
One-way latency .....	< 5msec (user data)
Number of UE's .....	250 active UEs per 2x2 MIMO sector
UE support.....	Category 1-5
Number of bearers per UE .....	8
Self-organizing network (SON).....	As per 3GPP Release 9 specifications
Connectors .....	4 x RF Type N; 3 x CPRI V4.1; 2 x GbE (SFP); GbE / PoE PSE; 1PPS-SynchIn; 1PPS-SynchOut; GPS Antenna; RET / AISG V2; Power Input
Synchronization .....	Integral GPS, IEEE1588/Synch Ethernet, or external 1PPS
Remote Electrical Tilt.....	AISG v2.0, 8-pin DIN per IEC 60130-9
Remote radio head interface .....	Three ports per CPRI V4.1, field serviceable SFP modules
Backhaul interface .....	Two GbE ports via field-serviceable SFP modules, supports stacking multiple baseband units into a single backhaul pipe
Power over Ethernet.....	Gigabit Ethernet power sourcing port per IEEE802.3at, RJ45
Management support.....	Operation, Administration, Maintenance, and Provisioning interface to Axxcelera NMS
External antenna.....	Dual feed architecture, slant pole beam width 120°, 90° and 60°
Physical size.....	32 cm (W) x 52 cm (L) x 24 cm (D)
Weight .....	<20Kg
Temperature .....	-40°C to 55°C
Humidity.....	Up to 100% condensing
Ingress protection rating.....	IP67
Regulatory compliance .....	FCC, CE
Environmental robustness.....	NEMA 4, IEEE1613 compliant
Physical security .....	Per FIPS-140-3 Level
Power Input .....	36 to 60 VDC
Power consumption .....	Up to 200W (not including PoE and RET consumption)
Mounting.....	Pole or Wall