AxxceLTE™ RRH

NEXT GENERATION PERFORMANCE. UNPARALLELED VALUE.

Benefits:

- Simplified installation and operation maximizing operational efficiency
- Robust design suitable for the most demanding markets
- Can be combined with Axxcelera's AxxceLTE™ µEPC and AxxceLTE™ BBU to create a complete broadband access network solution

AxxceLTE™ RRH (Remote Radio Head) Overview:

The AxxceLTE™ Remote Radio Head provides high-performance compact outdoor design that is suitable for demanding telecom applications. The AxxceLTE™ RRH supports four RF channels that can be software configured to be either 4 x 5W or 2 x 10W. It also supports remote electrical tilt (RET) making it easy to install along with advanced antenna systems. It seamlessly connects to the AxxceLTE™ BBU over 6Gbps CPRI fiber links in a redundant, daisy chain or star configuration. This 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 2x 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

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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™ RRH Specifications:

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	2 TX x 2 RX or 4 TX x 4 RX
Connectors	4 x RF Type N; 2 x CPRI; GbE / PoE PSE; RET; Power Input
Baseband interface	Two ports per CPRI V4.1 with line rate up to 6144 Mbps, field serviceable SFP modules, multi-mode or single mode fiber, supports daisy-chaining
Remote Electrical Tilt	AISG v2.0, 8-pin DIN per IEC 60130-9
Power over Ethernet	Gigabit Ethernet power sourcing port per IEEE802.3at, RJ45
Management support	C&M interface over CPRI to Axxcelera NMS
External indicators	Six bi-color LEDs indicating health and status of RRH unit
External antenna	Dual feed architecture, slant pole beam width 120°, 90° and 60°
Physical size	2x2 configuration: 32cm (W) x 54cm (L) x 12cm (D) 4x4 configuration: 32cm (W) x 54cm (L) x 24cm (D)
Weight	2x2 configuration: <12Kg 4x4 configuration: <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 100W (not including PoE and RET consumption)
Mounting	Pole or Wall