



Horizon 3G-nx macro Indoor

Motorola's Horizon 3G-nx macro Indoor is a future capable UMTS HSPA+ Node B, suited to rapid entry-level deployments and long-term future expansion with maximum flexibility at all stages of network deployment

The Horizon 3G-nx macro is compliant to 3GPP Release 7, with built-in support for Release 8 Standards. The Horizon 3G-nx macro Indoor supports innovative features including 'six sector', 'transmit diversity' and '8 carrier support', which deliver excellent network coverage and capacity, at an ongoing low cost of ownership.

Benefits

Fast Time to Revenue

Rapid Network Set-Up: Some 90% of parameters of Motorola's Horizon 3G-nx macro Indoor can be pre-optimized before field deployment. This innate intelligence simplifies network rollout and ensures minimum timescales to operational networks.

Maximum Revenue Capture: Horizon 3G-nx macro Indoor supports open and closed loop transmit diversity, 4-branch receive diversity. These features provide extra capacity and broaden coverage for UMTS HSPA+ service delivery. This increases revenue opportunities per site deployed.

Controlled Cost of Ownership

Highly Scaleable: Scaleable capacity and flexible configurations equip the Horizon 3G-nx macro Indoor for optimum initial rollouts and subsequent site expansion to support high traffic densities. The frame can support up to 24 carriers with a maximum of

eight carriers in 3 sectors, or four carriers in a 6 sector configuration.

Fully Featured: The Horizon 3G-nx macro Indoor supports HSPA/HSPA+ and R99/R4 users on the same carrier. 15 HSDPA codes per cell, HSUPA and dynamic power allocation are supported, as well as a number of different backhaul options including E1, T1, STM-1 and Fast Ethernet.

Future Capable: The Horizon 3G-nx macro Indoor is capable of HSPA+ including 2x2 MIMO antenna technology and is upgradeable to support peak data rates of up to 42Mbps in the downlink and 11Mbps in the uplink.

High Quality Service Provision

Robust Service Provision: Redundancy provided by baseband 'pooled resource' while N+1 backup mode ensures that subscribers experience consistent, high quality UMTS HSPA+ network access and service delivery.

Specifications

Horizon 3G-nx macro Indoor



Size: 900mm (H) x 600mm (W) x 450mm (D)

Weight: ≤160kg (fully populated)

Power Supply: +24VDC, -48VDC, 220VAC

Power Consumption: 1.3kW (maximum)

Operational Environment: -20°C to 50°C

ETSI EN 300 019-1-3 Class 3.1 (Operational Indoor)

Type Approval:

Type Approval: ETSI EN 301-908

EMC: ETSI EN 301 489-1

Safety: EN60215, IEC60215, EN60950, IEC60950, EN50385, IEC50385

Environmental Approval:

2002/95/EC Restriction of the use of certain hazardous substances in electrical and electronic equipment

2002/96/EC waste electrical and electronic equipment WEEE

94/62/EC Packaging and packaging waste

Radio Specifications

Supported Frequencies: 2100MHz, 850MHz

Maximum Number Cells: 24

Maximum Number Carriers: 8

Maximum Number Sectors: 6

Transmit Diversity: Optional

Receive Diversity: Two Path, Four Path Optional

MIMO: 2x2 Optional

Maximum RF Output Power: 80W

Receive Sensitivity:

Single Path: -125dBm

Two Path: -128dBm

Four Path: -131dBm

Capacity

Downlink Peak:

28.8Mbps (2x2 MIMO)

21.6Mbps (64QAM, 15 Codes)

Uplink Peak:

5.76Mbps

Channel Elements:

Downlink: 1536

Uplink: 1536

Ancillary

Remote Radio Units: Supported

Remote Electrical Tilt: Supported

Customer Equipment Space: None

Internal Battery Backup: None

Mounting: Floor

Backhaul: E1, T1, STM-1, FE



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