



Horizon 3G-nx mini

Motorola's mini and micro UMTS HSPA+ Solution

The Motorola Horizon 3G-nx mini platform is an outdoor capable UMTS HSPA+ Node B supporting multiple single sector configurations utilizing the same components as the Horizon 3G-nx fiber

Benefits

Physical Design

Motorola's Horizon 3G-nx mini solution provides a weatherproof environment for small capacity UMTS HSPA+ deployments. It uses the Horizon 3G-nx fiber BBU and RRU modules to provide a flexible solution ideal for smaller configurations all in a small outdoor footprint.

Easy and Quick Deployment

The mini offers rapid deployment capabilities by simply fixing the cabinet in place, fitting the RRU and BBU and connecting the external cables before downloading the data configuration file.

Functionality

As with all Motorola's Horizon 3G-nx platforms, the mini allows flexible RF configurations, being designed for specific locations where the macro product is not appropriate. It also boasts low power consumption and is future capable via the download of the appropriate software releases.

Additional Equipment Support

Support is also provided for a number of auxiliary units that can be used with the Horizon 3G-nx mini product including the outdoor AC lightening protection box, advance power module and uninterruptible power supply.

Controlled Cost of Ownership

Deployment Flexibility: The mini frame can be pole mounted, thereby potentially minimizing site acquisition costs.

Digital pre-distortion and Doherty techniques are used in the power amplifier delivering high efficiency, which in turn reduces system power consumption and lowers OPEX.

By utilizing the same components as the Horizon 3G-nx fiber solution, the cost of ownership for the service provider reduces as the fiber and mini all use common components thereby reducing spares holdings.

Future Capable: The Horizon 3G-nx fiber is capable of HSPA+ supporting peak data rates over 21Mbps in the downlink and 5Mbps in the uplink.

Fast Time to Revenue

Rapid Network Set-Up: The mini enables rapid deployment due to its small weight and size providing rapid coverage flexibility to capture targeted subscribers during all stages of deployment of UMTS HSPA+ networks.

Maximum Revenue Capture: Horizon 3G-nx mini solution supports HSDPA, STTD and TSTD open loop and closed loop transmit diversity. These features provide extra capacity and broader coverage for UMTS HSPA+ service delivery while maximizing revenue opportunities.

Specifications

MIMO Options

The Horizon 3G-nx has two options for supporting 2x2 MIMO. The first option is to use two 60W Remote Radio Units to provide a maximum of 2x60W MIMO. The second option is to use the single 80W RRU, that provides support for 2x40W MIMO in a single unit.



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Size:
 Mini Only: 600mm (H) x 240mm (W) x 390mm (D)
 Mini with Integrated RRU: 600mm (H) x 400mm (W) x 390mm (D)
 Weight: ≤35kg
 Power Supply: -48VDC, 220VAC, 110VAC
 Power Consumption: 410W (maximum)
 Operational Environment: -40°C to 45°C
 ETSI EN 300 019-1-3 Class 3.1 (Operational Indoor)
 ETSI EN 300 019-1-4 Class 4.1 (Operational Outdoor)
 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, 1900MHz, 850MHz, AWS
 Maximum Number Cells: 4
 Maximum Number Carriers: 4
 Maximum Number Sectors: 1
 Transmit Diversity: Optional
 Receive Diversity: Two Path, Four Path Optional
 MIMO: Not Supported
 Maximum RF Output Power: 60W
 Receive Sensitivity:
 Single Path: -125dBm
 Two Path: -128dBm
 Four Path: -131dBm

Capacity

Downlink Peak:
 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, Wall, Pole, Mast
 Backhaul: E1, T1, STM-1, FE



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