Horizon 3G-n *mini*

Motorola's 'mini and micro' UMTS HSPA solution

The Motorola Horizon 3G-n *mini* platform is an outdoor capable UMTS HSPA Node B supporting 1c1s, 2c1s or 1c3s configurations. The unit utilizes the same components as the Horizon 3G-n *fiber*. The BBU and RRU can be deployed as either a mini or micro solution.

The Horizon 3G-n *mini* provides a low capacity cell site supporting 1 or 2 carrier Omni or 3 sector 1 carrier configuration and can be deployed in site locations previously thought impractical. The unit can be also used as a micro deployment by reducing the transmit output power.

Horizon 3G-n *mini* Benefits

Physical Design

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

Easy and Quick Deployment

The *mini* can be quickly deployed by simply fixing in place, fitting the RRU and BBU and connecting the external cables before downloading the data configuration file. Installation time and overall network rollout time are thus reduced.

Functionality

As with all Motorola's Horizon 3G 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 items that can be used with the Horizon 3G-n *mini* product including the outdoor AC lightening protection box, advance power module and uninterruptible power supply.

DATA SHEET

HORIZON 3G-n *mini*
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The compact design of the Horizon 3G-n *mini* solution provides fast and cost effective coverage. The compact size of the unit makes it very effective in terms of site space requirements, easing deployment and providing high operational efficiency. The solution can be utilized as a hotspot in-fill solution as required and ensure longevity both in terms of standards support and future software capability.

Horizon 3G-n *mini*	
Size	(H x W x D): 610mm x 380mm x 390mm
Weight	≤35kg
Transmit Power	up to 40W
Receive Sensitivity	-125dBm (Single Path); -128dBm (2 path)
Power supply	-48V DC; 220VAC 45-66 Hz
Maximum Power Consumption	340W (at 40W output power)
Mounting Options	Wall; Pole; Mast
Operational environment	-33°C to +50°C (without solar load)
Backhaul	8E1; 8T1; 8J1; 1STM-1; 1FE
Supported Configurations	Mini: 1c1s – 2c1s; Mini: 1c3s;
HSDPA	15 codes (14.4 Mbps)
HSUPA	5.76Mbps
Capacity	Downlink: up to 512 Channel Elements; Uplink: up to 384 Channel Elements

FEATURES AND BENEFITS

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-n *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.

Controlled Cost of Ownership

Deployment Flexibility: The *mini* frame can be pole mounted, thus reducing site acquisition costs.

Digital pre-distortion and Doherty techniques within the power amplifier enhance efficiency, which reduces the system power consumption and lowers OPEX.

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

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