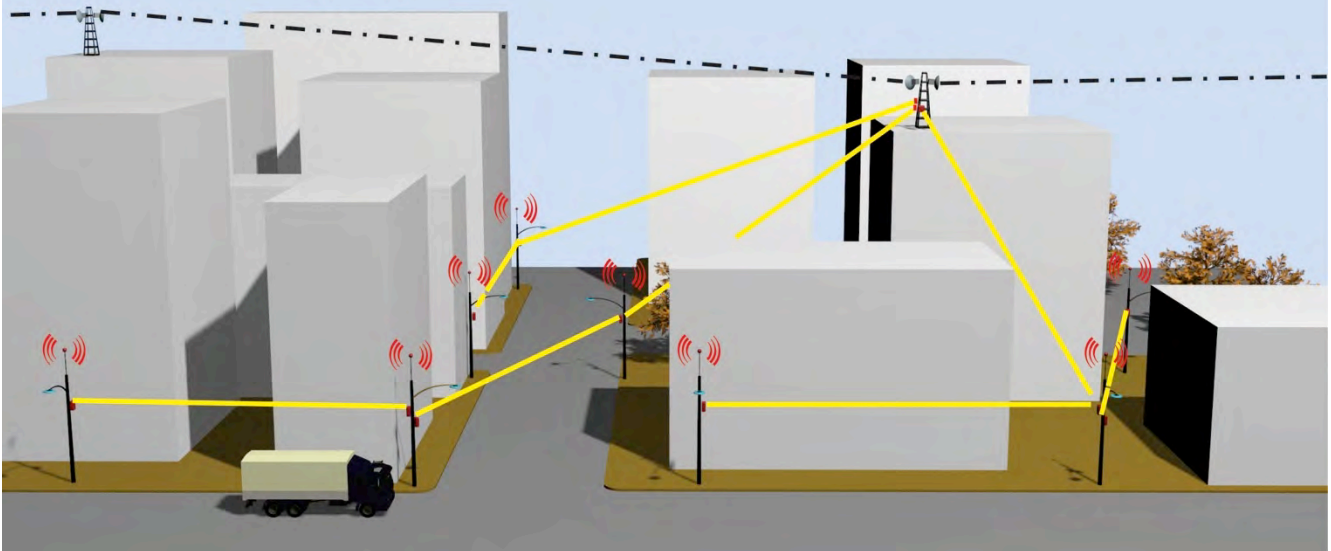




StarBurst Janus

Ultra High Capacity Backhaul Radio

Wireless Backhaul Solutions



StarBurst Janus provides Gigabit throughput with a spectrally efficient software definable radio system where capacity, bandwidth and duplexing method can be configured.

The Backhaul Problem

Network Operators require fiber-like backhaul and metro ethernet transport to satisfy the increasing demand placed on their networks.

The backhaul must address the total cost of ownership by ensuring that Capital costs are affordable whilst optimizing Operating costs (including spectrum fees and maintenance costs).

The StarBurst Solution

StarBurst Janus is an Ultra High Capacity backhaul radio providing multi-Gigabit throughput capacity. Janus can be applied either as a Line of Sight (LOS) MIMO radio or as a compact 2+0 Ultra High Capacity backhaul radio.

StarBurst reduces Capex and Opex costs with high spectral efficiency and software definability giving downstream cost savings in fees, maintenance and upgrade costs.

Applications

- Ultra High Capacity Backhaul for Small, Medium and Large Cell Mobile deployments (such as LTE/LTE-A, WiMAX and other 4G technologies)
- Cost-effective Alternative for Fiber and Millimeterwave links.

Key Differentiators

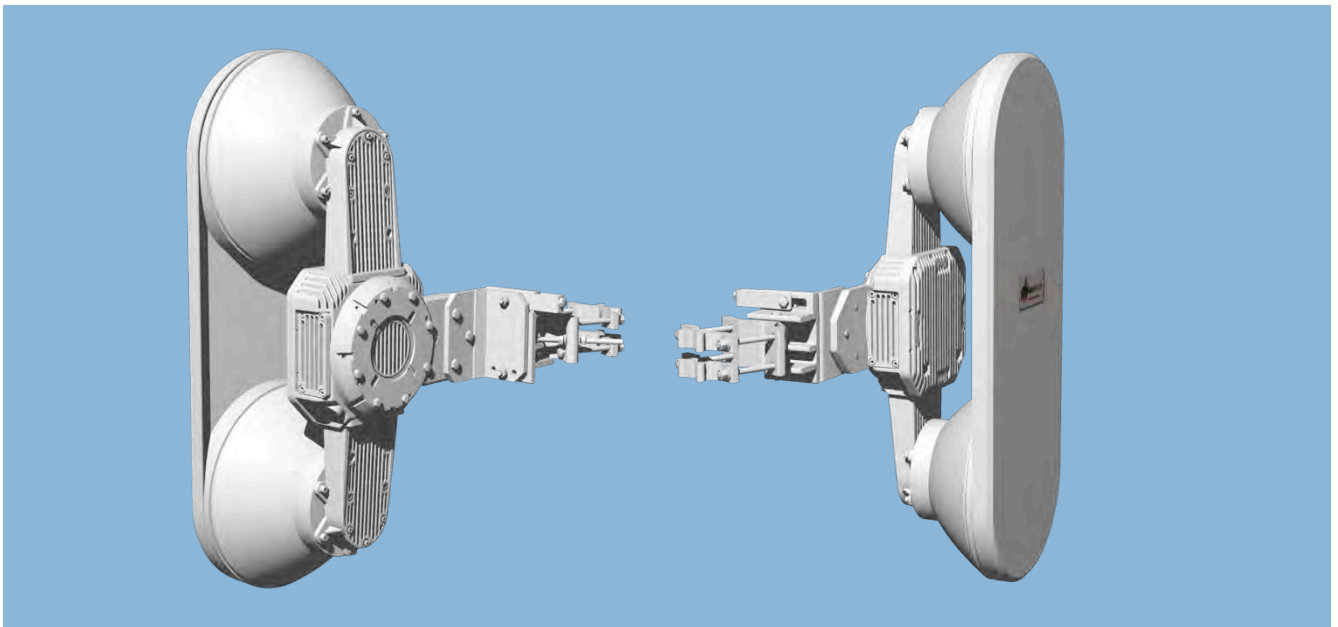
- Patented LOS MIMO technology gives superior throughput performance within optimal range.
- High Spectral Efficiency achieved with spatial diversity (MIMO) and modulation up to 256QAM.
- Software Definable Radio implementation provides flexibility and cognitive ability.

The StarBurst is Ultra High Capacity solution can be configured as either a compact 2+0 or 2x2 / 4x4 LOS MIMO link with > 1 Gbps throughput

Specifications – 23G / 24G

| Parameter | Specification | | | |
|--|---|--------------|--------------|-------------------------|
| Application | Ultra High Capacity backhaul in traditional ¹ and non-traditional ² microwave bands above 23 GHz. | | | |
| Spatial / Diplex Technique | 2x2 MIMO TDD | 2x2 MIMO FDD | 2+0 FDD | 4 x 4 MIMO ³ |
| Channels Required 1 Freq pair = 1 channel | 1 channel | 1 channel | 2 channel | 1 channel |
| Frequency | 23 GHz licensed and 24 GHz unlicensed bands | | | |
| Channel BW | 20 MHz to 56 MHz | | | |
| Channel Plan | ETSI and ANSI | | | |
| Modulation | QPSK / 16QAM / 64QAM / 256QAM | | | |
| Transmit Power | Up to 23dBm (200mW) | | | |
| Data Rate | Up to 1 Gbps Full Duplex for MIMO mode (depending on channel bandwidth) Up to 1.4 Gbps Full Duplex for 2+0 mode (depending on channel bandwidth) | | | |
| Interfaces | 1000BASE-T (RJ-45) + 1000BASE-SX (SFP) | | | |
| Network Management | SNMP Management with v3 support, Published MIB and MIB-II supported for standard statistical monitoring. | | | |
| User Interface | GUI for setup, status, software update and security. | | | |
| Power Supply | -48V DC supply (N-Type coax connector) | | | |
| Power Consumption | 80 Watts per terminal | | | |
| Protection | Surge Protection | | | |
| Physical Dimensions (with 0,3m antenna) | 755 x 288 x 313 mm (H x W x D) | | Weight 15 kg | |
| Environmental | Operating Temperature: -30 to +55°C (-22 to 131°F) All weather | | | |

| | |
|-----------|---|
| Footnotes | ¹ licensed microwave bands between 6 to 40 GHz ² non-traditional licensed/unlicensed bands at 24, 28-31 GHz ³ Note that antenna separation distance affects maximum MIMO range |
|-----------|---|



Product Highlights

- Configurable modes available to suit the budget and capacity requirements:

| Mode | Channels | Max BW | Max Throughput |
|----------|----------|--------|----------------|
| 2x2 MIMO | 1 | 56 MHz | 560 Mbps |
| 2x2 MIMO | 1 | 56 MHz | 700 Mbps |
| 2+0 FDD | 2 | 56 MHz | 1400 Mbps |
| 4x4 MIMO | 1 | 56 MHz | 1400 Mbps |

- Capacity up to 1.4 Gbps in 56 MHz for StarBurst Janus in 2+0 and 4x4 MIMO modes.
- Software definable radio allows pre- and post-deployment flexibility of capacity and applications.

- IP Traffic optimized:
 - Native Ethernet with low latency and jitter
 - CE 2.0 Compliance
 - SyncE support
- Network Management
 - Easy configuration from embedded Web interface and SNMP v3 network management
- All Outdoor construction for zero footprint

MIMOTech (Pty) Ltd

64 White Rd, Retreat
Cape Town, 7945, South Africa

www.mimotechnology.com

sales@mimotechnology.com



Simplicity is the Ultimate Sophistication

