

FASTBACK IBR

Revolutionizing Wireless Connectivity for Temporary Events and Emergency Response



A tall white lattice tower with multiple cellular antennas and cables against a blue sky with white clouds.	The spire of the Sagrada Familia cathedral in Barcelona, illuminated with yellow lights against a cloudy sky.	A large black metal truss structure supporting stage equipment, including speakers and lighting, against a clear blue sky.	A close-up view of cellular antennas and equipment mounted on a building facade in a city environment.
US OPEN GOLF TOURNEY	POPE FRANCIS NYC VISIT	GLOBAL CITIZENS NYC CONCERT	NYC TIMES SQUARE, NEW YEAR'S EVE

From the Super Bowl to mega-concerts to natural disasters, getting high-capacity wireless-backhaul installations up and running quickly is vital to meeting the bandwidth demands of special events and to responding quickly to outages and emergencies. Fastback Intelligent Backhaul Radio™ (IBR) is the game-changer in providing mobile services for temporary events.

“The IBR brought a completely new level of capacity and versatility to temporary service and Cell (Site) on Wheels (CoW) deployments, delivering a 4x leap in capacity across both LOS and NLOS under heavy interference conditions. Plus, the ability to do quick-turn installations with the IBR makes it well-suited to the common constraints of temporary service set-ups.”

Robert Maxwell, Project Manager, Tier 1 Temporary Service, Pope Francis NYC visit, AMP Communications

NEW DYNAMICS OF DELIVERING TEMPORARY BANDWIDTH

Proven to be a game-changer for large scale events, Fastback IBR is the new logical choice for providing high capacity wireless coverage wherever it is needed, quickly and economically, and with carrier-grade dependability. IBR enables providers to save time, reduce labor and equipment costs, avoid LOS studies and frequency planning, minimize the number of sites and hops, and utilize wireless-backhaul in places where before it was impractical or impossible. Temporary situations, yes... permanent benefits, absolutely.



Fastback IBR-1300

ONE UNIT, ALL CONDITIONS

Fastback IBR is a single wireless-backhaul solution for all locales and line of sight conditions, handling unobstructed Line-of-Sight (LOS), partially obstructed Near-Line-of-Sight (nLOS) and totally obstructed Non-Line-of-Sight (NLOS) links with carrier-grade reliability, indoors or outdoors, Cellular or WiFi, and across heavily metallic landscapes, water and complex terrains.

UNMATCHED CAPACITY AND LOW LATENCY

The IBR is packed with both technical and economic advances, including world-first breakthroughs in transmission to ease set-up and mitigate interference, on-board power to simplify install, and a compact design that guarantees deployment in any location or environment. Fastback IBR delivers the highest capacity (up to 1.6 Gbps) of any backhaul radio in AnyLOS conditions, along with the lowest latency (<400 µsec). Additionally, patented Fastback Extreme Interference Protection (XIP) technology enables IBR to achieve reliable high performance operation in 5 GHz unlicensed spectrum without being hampered by the severe levels of interference associated with unlicensed band. Consequently, IBR consistently meets the bandwidth requirements of temporary event use cases with no capacity constraints, no frequency planning requirements, and fewer required sites.

COMPACT AND SELF-CONTAINED

Fastback IBR integrates an intelligent wireless backhaul radio, switch, router, and native Ethernet capabilities inside a single small-footprint enclosure of 8x10x3.5 inches. In addition to enabling faster installs, this results in fewer managed elements per site and lower capital costs.

FAST, EASY DEPLOYMENT

Designed for rapid deployment by minimally trained personnel, self-contained light-weight Fastback IBR units are installable on CoWs or fixed infrastructure in a matter of minutes, right out of the box, no assembly required. Leveraging Fastback's integrated auto discovery and synchronization capabilities, units automatically self-align and can be fully operational in less than an hour, regardless of line of sight conditions. Tear-down and redeployment is just as quick and easy.

WHY FASTBACK IBR

- *Fastest install:* Up and running within an hour
- *Easiest deployment:* No manual alignment, LOS studies or frequency planning
- *Most versatile:* Tolerant to link obstructions, and to interference in unlicensed spectrum
- *Highest Speeds:* Up to 1.6 Gbps at 500m range (NLOS) and 2km range (LOS), 900 Mbps at 3km range (LOS), 300 Mbps at 13km range (LOS)
- *Lowest latency:* Under 400 µsec
- *Most economical:* Significant labor and equipment cost savings

BROAD RANGE OF APPLICATIONS

- Sports competitions, tournaments and races
- Festivals and concerts
- Conventions, conferences and trade shows
- Government, civic and political events
- Emergency response
- Outage response
- Congestion prevention and mitigation

“From what we experienced at SXSW, Fastback is set to revolutionize the provisioning of bandwidth for temporary events. Starting with how quickly it went up and automatically established its link to how impervious it was to obstructions and interference, we were able to do things around the Fastback IBR that absolutely would not have been possible with any other backhaul radio we use.”

Terry Bruner, President, SWCWC, Inc.



intelligent wireless transport

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