

## BACKHAUL

Management and start-up:

- ▶ Site search by rings
- ▶ Pre-feasibility and municipal procedures
- ▶ Site Energy Provision Management
- ▶ Power consumption Scaling
- ▶ Municipal Arrangements
- ▶ ANAC permits
- ▶ Environmental impact studies
- ▶ Signing of lease agreements
- ▶ Coverage simulations
- ▶ Soil survey
- ▶ Preparation of appraisals for foundations and structures
- ▶ Installation of structures (monopoles, SST, masts)
- ▶ Construction of complementary projects
- ▶ Satellite backhaul scaled to population
- ▶ RF/Tx installation
- ▶ Site integration
- ▶ Comprehensive site maintenance
- ▶ Network Monitoring and Optimization



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## BACKHAUL

### State-of-the-art satellite platforms

**iDirect Evolution**, with its open, scalable, and efficient architecture, offers high quality, flexible, and low latency broadband services, making it suitable for various critical applications such as communications for the oil industry, emergency services, and any others that require reliable and highly available connections.

Main features:

- ▶ State-of-the-art DVB S2X broadcast standard.
- ▶ Satellite modem for easy configuration and quick deployment.
- ▶ Lowest latency for star topology on the market.
- ▶ Modern and robust infrastructure with virtualization and 100% redundancy



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**Gilat SEIC X Chassis** represents the latest advances in satellite transmission technology, incorporating support for multi-beam HTS satellites and native GTP (GPRS Tunnelling Protocol) acceleration.

This grouping of features provides support for high-speed networks and specific applications such as cellular backhaul, on-board internet, and high-speed services. In addition, it has automated processes for all stages of the service, allowing for an agile installation and efficient management, simplifying operation and administrative needs.

Robust satellite modems complement the platform, guaranteeing always on connections with complex traffic handling, without the need for devices such as external traffic meters.

Main features:

- ▶ DVB SX2 and LDPC broadcast standards
- ▶ Multiple optimizations for cellular backhaul
- ▶ Easily scalable modular architecture
- ▶ Robust, high-performance satellite modems



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Satellites we operate with

### INTELSAT IS37e

HTS (High Throughput Satellite), operated by Intelsat, features the latest technological advances in high-speed satellite transmission, serving the growing demand for bandwidth.

### Bandwidths offered

Download speeds up to 45 Mbps and upload speeds to 20 Mbps in dedicated services.

- ▶ Capricorn 4 / BUC 4W Download: 95 Mbps Upload: 5 Mbps
- ▶ Capricorn 4 / BUC 8W / Antena 1.2m Download: 95 Mbps Upload: 7 Mbps
- ▶ Capricorn 4 / BUC 8W / Antena 1.8m Download: 95 Mbps Upload: 10 Mbps



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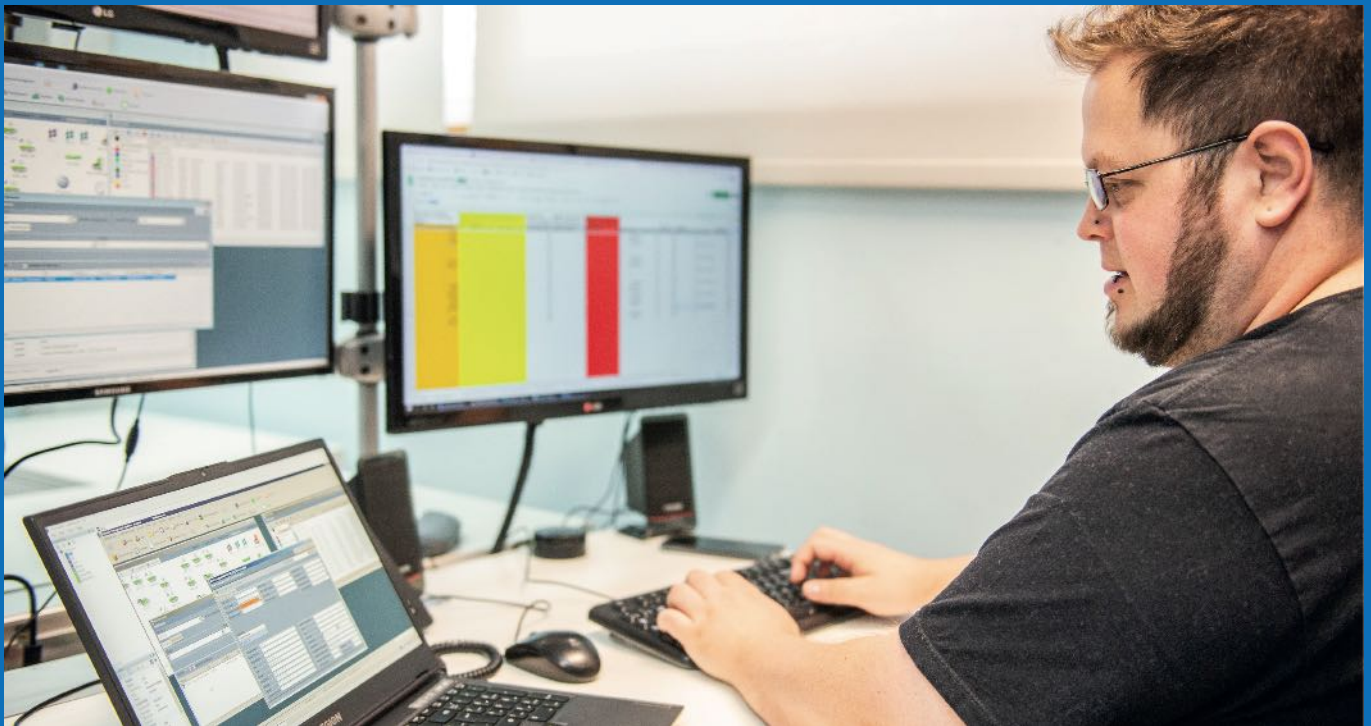
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### TLP Infrastructure

Complementing the technological offer, our primary antennas are equipped with the latest advances in satellite communications and monitoring. Fully redundant transmission and reception chains are linked by fiber optics to our satellite HUBs and monitored 24/7 by modern monitoring systems. Automatic digital control motors provide optimum signal levels, and weather compensation systems guarantee operation in any circumstances. This provides continuous availability and best quality in our services.

All platforms are managed by our engineering and NOC team, trained and certified abroad by the manufacturers in training centers at their headquarters.



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Transmission antennas:

- ▶ 6.3m / 4.5m / 3.8m Master Antennas
- ▶ Available power levels of: 750W / 380W
- ▶ State-of-the-art GDSatcom control and monitoring equipment

Infrastructure:

- ▶ High-capacity and high-availability Uninterruptable Power Supply (UPS)
- ▶ Smoke, temperature, and humidity detectors
- ▶ FM-200 fire suppression system
- ▶ Biometric access at all access points
- ▶ Closed-circuit cameras



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## BACKHAUL

Currently dozens of sites in Argentina rely on our **Satellite Backhaul** solutions, which make possible communication and expansion of cellular networks, guaranteeing coverage and support for 4G and LTE technologies.

The rapid development of cellular networks requires connectivity both in places where land-based technologies are not available or where they are not feasible due to high cost or deployment time.

In these cases, Satellite Cellular Backhaul becomes an excellent tool that allows cells to be put on the air at very reasonable costs and implementation times.



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