

UNIQUE SOLUTIONS



SIGNAL BOOSTERS DIGITAL | ANALOG

Fiplex commitment is to deliver reliable and high quality products to the Public Safety Market. Through constant Research & Development, we have been able to provide unique and customized solutions to the most complex requirements.

Our product line includes:

- Digital Signal Boosters
- Digital Simplex Signal Boosters
- Bandwidth Adjustable Signal Boosters

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DIGITAL SIGNAL BOOSTERS

In highly congested communications areas, there is only one solution: Fiplex Digital Signal Boosters. Our state-of-the-art technology allows the end user to select desired frequencies to be amplified, enhancing the indoor coverage, while retaining the BTS sensitivity. Due to the uplink squelch activating the UL amplification only while signals are present in a specific channel and time slot, overall UL noise is highly reduced.

Fiplex Digital Signal Boosters are designed to:

- Obtain the top performance under critical situations,
- Comply with the most rigorous AHJ's requirements,
- Improve coverage extension,
- Optimize spectrum use by working with the same BTS channels (Frequency received = Frequency transmitted).
- Reduce hardware and maintenance costs, as it only requires one unit to be installed at the remote site.

The use of digital signal processing technology provides the traditional RF Signal Boosters with several features that increase their performance:

- Built-in spectrum analyzer for a more efficient and simple system setup and operation
- Uplink squelch capability compatible with analog and digital format per-channel and per-time slot; reducing the desense of the base station
- Multiple different filter shapes selection in order to meet the requirements of RF congested scenarios
- Available in VHF, UHF, 700 and 800 MHz
- Compatible with Tetra, P25 Ph1, P25 Ph2, DMR, Nexedge, among others

DIGITAL SIMPLEX SIGNAL BOOSTERS

Fiplex has developed a new line of **Digital Simplex Signal Boosters** intended to provide indoor coverage extension to radio equipment operating in SIMPLEX mode.

Being channel selective, this product operation allows the handling up to 12 specific channels.

A solution based in Digital Signal Processing, FPGA based, which permits a more precise operation compared with traditional analog systems.

Digital Simplex Repeaters (DSR) are equipped with 4 antenna ports: Inbound in, Inbound out, Outgoing in, Outgoing out.

Furthermore, the sensitivity of these Digital Signal Boosters is user programmable per channel and per direction and its **available in VHF, UHF, 700 and 800 MHz**.

BANDWIDTH ADJUSTABLE SIGNAL BOOSTERS

Fiplex indoor and outdoor coverage extension solutions are designed to satisfy the rigorous demand for providing service in areas outside the reach of the base stations, be that voice communications, data and/or wireless internet. Thanks to the modular philosophy of the design, the Fiplex coverage extension solutions allow for the ability to provide services from one operator and in one band to multiple operators using diverse bands, covering needs from FM to LTE, permitting the coexistence of different technologies simultaneously, without any quality of service degradation.

Products

- Public Safety Bandwidth Adjustable Signal Boosters – VHF and UHF
- Public Safety Band Selective Dual Sub Band Signal Boosters – UHF
- Public Safety Bandwidth Adjustable Signal Boosters – 700 and 800MHz
- Public Safety Dual Band Bandwidth Adjustable Signal Boosters – 700 and 800MHz
- Public Safety Ultra-Compact Signal Boosters – 700 and 800MHz