

FIPLEX DAS SOLUTIONS

Be part of the future



Take your communications to the next level with Fiplex Digital Fiber DAS Solutions.

The need for seamless communications today has evolved greatly over the last 10 years with all forms of multimedia traffic: phone calls, messaging, emails, social media, internet; placing a burden on improving telecom technology constantly, specifically in the wireless arena. How prepared is your telecom infrastructure to meet this challenge?

Improve indoor and outdoor communications in:

- Stadiums
- Theaters
- University campus
- Hospitals
- Military facilities
- Corporate / Government buildings
- Convention Centers
- Shopping Centers
- Subways
- Airports
- Parking structure



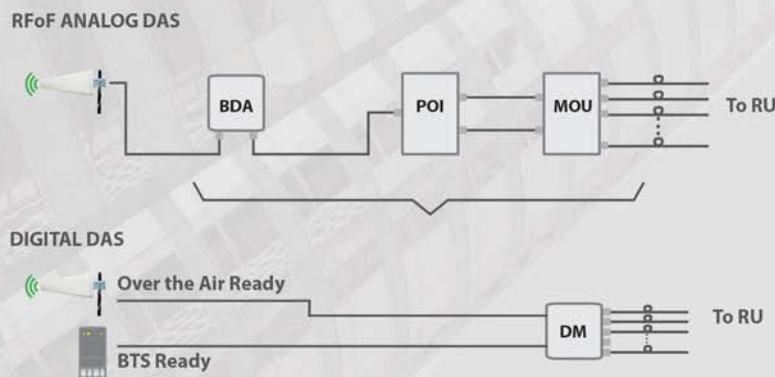
The only Public Safety Centric Digital Fiber DAS

Fiplex Digital Fiber DAS is the evolution of the traditional RF over Fiber (RfOF) analog DAS, that improves several limitations and application issues related to analog RfOF technology, especially when dealing with Public Safety / Mission Critical communication systems, and opens a new and wide range of possibilities and security features.

Strong in-house R&D has allowed the Fiplex Engineering Team to design a “best in class” Public Safety Digital Fiber DAS solution that focused on improving performance in the below areas:

- enhanced flexibility for design and implementation,
- sharper filtering masks,
- efficient spectrum management,
- uplink noise cancellation,
- virtual measuring instrument implementation,
- system agility to allow design changes without the need to upgrade hardware.

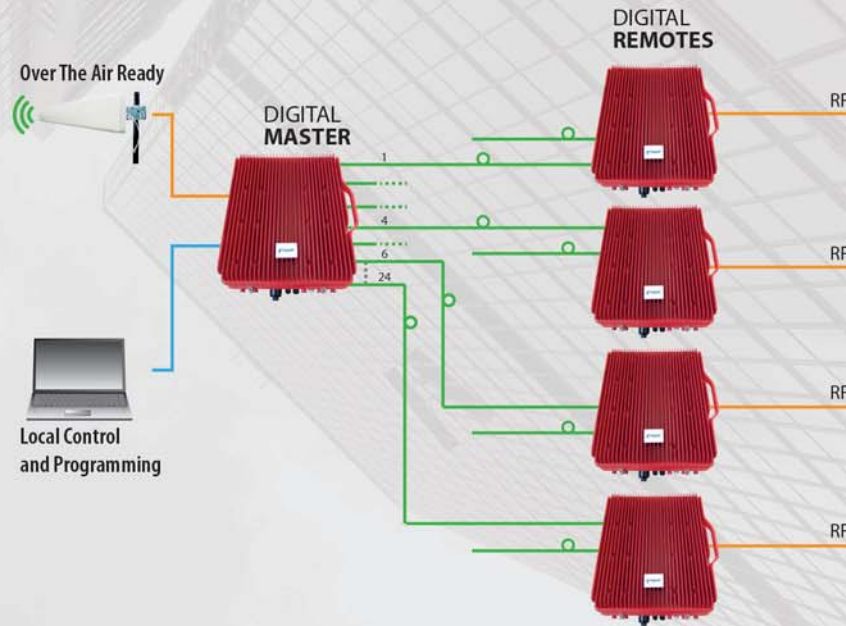
Fiplex Digital Fiber DAS simplifies the deployment, operation and maintenance of the distributed antenna system.



Comparison between a traditional RFoF Analog DAS and FIPLEX Digital DAS

Digital DAS Benefits:

- Channelized solution
- Far End communication preservation
- Wide dynamic range
- Greater fiber distances
- Gain adjustment per filter
- No degradation of the BTS uplink sensitivity
- Built in spectrum analyzer
- AGC per channel and per time slot
- Phase control and Simulcast capability
- Built in redundancy
- No fiber-environment noise transported to RF
- Remote control capability
- Reduced inventory items
- NFPA compliant
- OTA Ready



There is only one way to ENHANCE YOUR PUBLIC SAFETY COMMUNICATIONS

Specifications	Analog DAS	Broadband Digital DAS	Public Safety Centric Digital DAS
1 Absence of fiber-environment noise transported to RF	✗	✓	✓
2 UL and DL squelch per channel and per time slot in Master and Remote units	✗	✗	✓
3 Far End communications preservation	✗	✗	✓
4 UL and DL AGC per channel and per time slot in Master and Remote units	✗	✗	✓
5 Gain adjustment per channel in Master and Remote units	✗	✗	✓
6 Software definable channelization setup in Master and Remote Units	✗	✗	✓
7 RF Performance independent to fiber length	✗	✓	✓
8 Maximum fiber distance	12mi	25mi	25mi
9 Delay alignment	✗	✓ (can be done)	✓
10 Simplified topology	✗	✗	✓
11 Built in spectrum analyzer	✗	✓	✓
12 Built in redundancy	With added HW	With added HW	✓
13 Difficulty to deploy	High	Mid	Low
14 OTA Ready	✗	✗	✓
15 Preservation of performance in critical situations	✗	✗	✓



Fiplex Communications, Inc. is a designer and manufacturer of highly innovative and cost-effective electromagnetic devices and subsystems for private and public telecommunications applications, recognized worldwide.

Being an engineering driven company with +30 years of experience in the market, Fiplex supplies a wide line of passive and active products for the Telecommunications Industry, which includes standard and customized solutions for:

- Two-Way Radio and Public Safety
- Coverage extension (indoor and outdoor)
- Public Safety Central Digital DAS
- Broadcast (TV, digital TV an FM)

Through constant Research and Development, Fiplex is always striving to amplify the breadth of its product lines, while quickly responding to its clients' custom requests when needed.

Our goal is total customer satisfaction, based on a high quality product commitment.

We strive to be a leader of high tech products for private and public sectors; such as military, police and civil defense.



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