

# FIRST RESPONDERS' BEST ALLY



## PUBLIC SAFETY CENTRIC DAS

The need for seamless communications today has evolved greatly over the last 10 years due to the diverse forms of multimedia traffic like phone calls, messaging, emails, social media and internet.

Though these are not the only needs for in-building coverage. Reliable Public Safety Communications is the key and the AHJ's requirements are becoming more rigorous.

**Is your telecom infrastructure prepared to meet this challenge?**

### Improve indoor and outdoor communications in:

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

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## THE ONLY PUBLIC SAFETY CENTRIC DAS

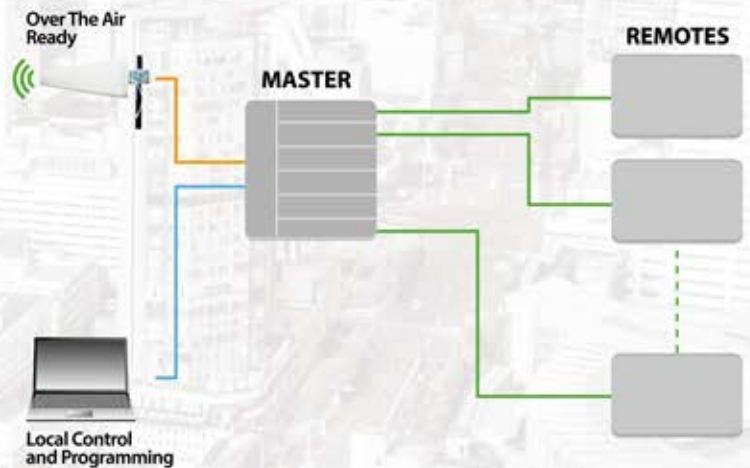
Fiplex Public Safety Centric DAS is the evolution of the traditional Broad Band RF over Fiber (RfOf) DAS, improving actual limitations in system response under critical situations, which is extremely important in Public Safety / Mission Critical communication systems. Fiplex opens a new and wide range of possibilities and security features.

Strong in-house R&D has allowed the Fiplex Engineering Team to design a “best in class” Public Safety Centric DAS solution that focuses on improving performance through:

- Enhanced flexibility for design and implementation
- Sharper filtering masks
- Efficient spectrum management
- Outstanding Uplink noise management
- Virtual measuring instrument implementation
- System agility to allow design changes without the need to upgrade hardware

### PUBLIC SAFETY CENTRIC DAS BENEFITS

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



Specifications	Analog DAS	Broadband Digital DAS	Public Safety Centric 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	✗	✗	✓