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# Xfin

## Xfin TRUNKED INFRASTRUCTURE



The Xfin trunked base station is a cutting edge infrastructure solution for high reliability and cost effective radio communications.

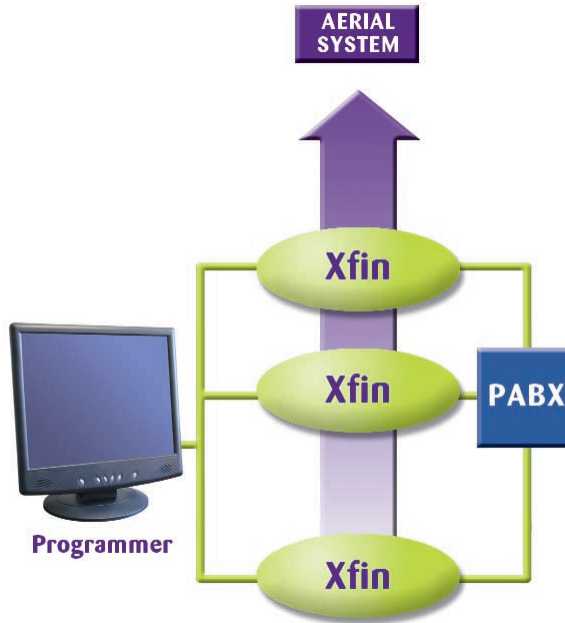
Each Xfin is a self-contained trunked radio & controller. These can be added together to provide a large or small system to suit customer needs. Xfin combines the proven reliability of trunked MPT1327 with telephony and IP to provide outstanding flexibility and performance.



- Fault tolerant architecture for high-reliability operation.
- Each Xfin is a self-contained radio channel and trunked controller in a single 1RU housing.
- Delivers voice and data communications over an IP backbone.
- Sites can be easily expanded with plug & play configuration.
- Access can be carried out on a live system with zero downtime.
- A maximum of 32 units are possible in any single site making it suitable for large enterprises or small businesses.
- Telephone interconnect facility is available on any single Xfin maintaining optimum performance for trunked radio functions.
- Each Xfin can be interconnected to form a multi site radio network using a standard IP connection.
- System management is through a powerful windows XP programming package.
- Rich Diagnostic and System analysis reporting tools.
- Comprehensive call logging & remote management tools.
- Serial or IP connectivity allows remote wireless or wired local connection.
- System configurations can be made off line or 'live' with zero downtime.
- Built in monitor speaker.

## TRUNKED FEATURES

- MPT1327 standard
- Expandable up to 32 channels
- Dedicated or non-dedicated control channel
- Capacity of 9,000 subscribers
- Up to 70 fleets
- Maximum of 1000 groups
- Subscriber management (registration, access levels, white list, unit barring, ESN Check)
- Voice calls (individual, group, broadcast, emergency & priority)
- Data (status, short data and non-prescribed data)
- Telephone interconnect for every channel as standard.
- Call queuing, pre-emption and diversion



## SPECIFICATIONS

### General

Channel Bandwidth	12.5kHz & 25kHz selectable per channel		
Duty Cycle:	100% (1W to 100W)		
Frequency Bands:	EO: 66-88MHz	AC: 136-174MHz	KM: 205-245MHz
	R3: 335-400MHz	TU: 400-480MHz	UW: 440-520MHz
Temperature:	-20°C to +55°C		
Tx Current Consumption	8.85A max @ 25W (5.7A typical)		
Inputs/Outputs	Ethernet, RS232 serial, RJ45 engineers mic socket		
Display	LCD 2 lines by 20 characters		

### Transmitter

Distortion	<5% at 1kHz, 60% deviation		
Frequency response	+1dB to -3dB pre-emph 300-3000Hz (25kHz), 300-2500Hz (12.5kHz)		
Stability	±2.0ppm		
Intermodulation	>40dB		
Hum and Noise	>40dB (12.5kHz), >45dB (25kHz)		
Rise Time	<25ms		

### Receiver

Sensitivity	+12dB SINAD for 0.3µV <sub>pd</sub>		
Audio Response	±3dB de-emph	300-2550Hz (12.5kHz with CTCSS)	300-3000Hz (25kHz with CTCSS)
Distortion	<5%		
Blocking	>95dB at ±1MHz		
Intermodulation	>70dB		



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