LinkNet[™] 800 MHz FM Module. Wireless Inside. Made Simple.





LinkNet is the Ultimate Wireless Service Convergence Platform – made simple to meet complex challenges. It is the only platform you will need now or in the future.

The LinkNet 800 MHz FM Module is a single narrow band on-frequency repeater designed to receive and transmit on the same frequency. It ensures that your clean, clear signals arrive at their intended destination no matter where you are – buildings, tunnels, garages, deep valleys and other challenging RF shielded structures. The LinkNet 800 MHz FM modules cover the 800 MHz range. Please see specifications on reverse for sub-band selections. The LinkNet 800 MHz FM module is designed to operate in the LinkNet Convergence Platform with ts unique modular design, making it the most flexible and scalable solution on the market today and allowing you to extend coverage in ways that macro-networks can't.

Additional Features and Benefits

Easy Set-up Configuration

All major components are 'plug-and-play/ unplug and-remove' to minimize installation down time and eliminate the need for extensive service equipment on-site.

Hot Swappable

Vodules can be added to the LinkNet Platform without powering down the entire system.

Diagnostic Features

The LinkNet 800 MHz FM module automatically performs a selfdiagnostic check when inserted into the chassis. As well, with the Gateway Module major fault conditions can be constantly monitored, including;

- Frequency synchronization
- Primary power failure
- Thermal management
- Over-current/under-current

Responds only to Assigned Channels

The LinkNet 800 MHz FM Module does not re-transmit noise, interference or adjacent channels. Only those frequencies desired will be retransmitted, ideal for congested urban or high density RF environments.



Specifications

Module Specifications

LNKF800-G2

LNKF800-H2

Frequncy Bands	806-824 MHz, 851-869 MHz, (FM) 896-902 MHz, 935-941 MHz	
Modulation & Bandwidths	Narrowband FM 25 or 12.5 KHz (as per Model Chart below)	
RF Frequency Stability	Tracks input Signal Exactly	
Maximum RF Output Power	+38 dBm +37 dBm for -G2 & -H2 Models	
RF Output Power Range	Power can be reduced 20 dB in 1dB Steps (AGC Controlled)	
RF Output Power Variation	+/- 1 dB	
Input Dynamic Range	-110 to –30 dBm	
Input Sensitivity Adjust Range	-110 to –50 dBm	
Input Hysteresis	1 to 10 dB	
Adjacent Channel Selectivity	60 dB Minimum	
Transmit Duty Cycle	Continuous	
Transmit Spurious	-13 dBm max	
Receive Conducted Spurious	-57 dBm max	
Group Delay	<120 uS for 25 KHz, <160 uS for 12.5 KHz	
Audio Distortion & Noise	<3% Increase	
RF Connectors	SMA (50Ω)Connectors on back of Card-Cage	
Module Power Supply Requirements	45 Watts Maximum	
Connections	Edge Connector & 2 Blind-Mate RF Connectors to Card-Cage, DB-15 Connector on back of Card- Cage provides per-Module Fault Relay, Interconnect to other Modules, & RS-232 Connection	
Front Panel Indicators	Operating, Stand by, Fault, Program Mode, Receive, Transmit	
Configuration Options	RF Modules may be configured either via the optional Gateway Module, or via a PC and an RS-232	
	Connection via the Card-Cage.	
Operating Temperature Range	-10 to +50°C; consult Kaval for installation specific forced-air cooling requirements.	
Operating Humidity Range	10 to 90% RH, Non-Condensing	
Size	9.11"High x 2.00"Wide x 14.00"Deep	
Weight	10 lbs., 4.5 kg. Max	
LNKF400 Module Family		
MODEL	ТҮРЕ	FREQUENCY
LNKF800-A1	25 KHz FM Channels	806-824 MHz (FM)
LNKF800-B1	25 KHz FM Channels	851-869 MHz (FM)
LNKF800-C2	12.5 KHz FM Channels	806-824 MHz (FM)
LNKF800-D2	12.5 KHz FM Channels	851-869 MHz (FM)

12.5 KHz FM Channels 12.5 KHz FM Channels

Wireless inside. Made possible.

896-902 MHz (FM)

935-941 MHz (FM)