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Operational Description for LNKFIB-R01 & H01 SatelLink Fiber System

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Theory Of Operation

The SatelLink RF to Fiber Modules provide a multi-band, multi-service link from a main distribution center to multiple local antennae. RF Signals are distributed in runs of three pairs of Single-Mode Fiber-Optic Distribution Lines, organized as...

- Fiber Pair #1:** 1.9 GHz PCS Services
- Fiber Pair #2:** 800 MHz Cellular Services
- Fiber Pair #3:** 800 MHz iDEN & Paging Services

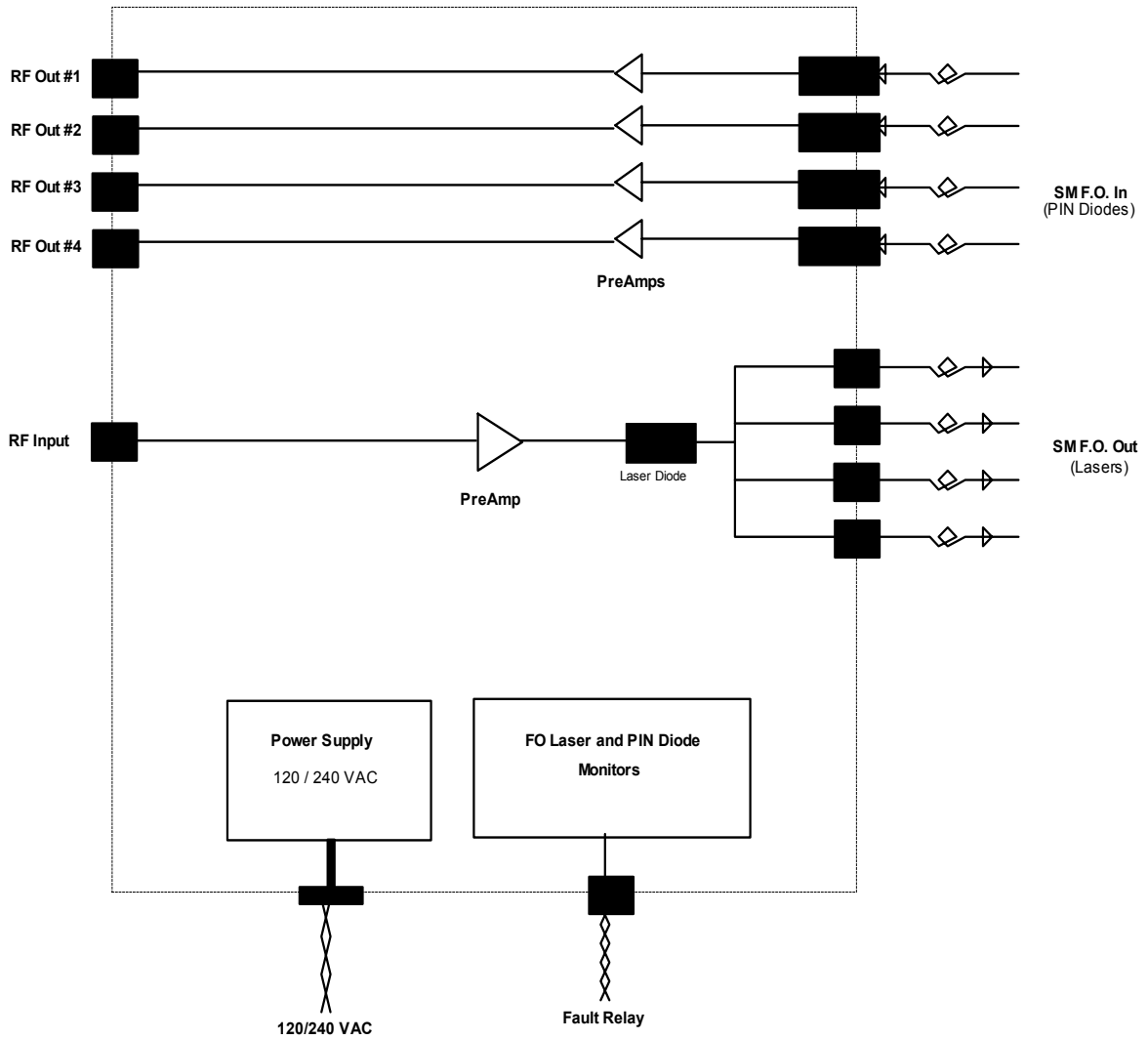
There are two models....

Models	SatelLink MODEL	DESCRIPTION
	LNKFIB-H01	This is a 1U high, 19" Rack-Mount Module providing low signal level interfacing between Head-End RF Modules and Single-Mode Fiber-Optic Distribution Lines. One is used for each of the three Fiber Pair Groups, and can service up to four Remote Modules.
	LNKFIB-R01	This is a Wall-Mounted Remote Module that connects to the Single-Mode Fiber-Optic Distribution Lines and provides eight local Distribution Antennae for Signal Extension.

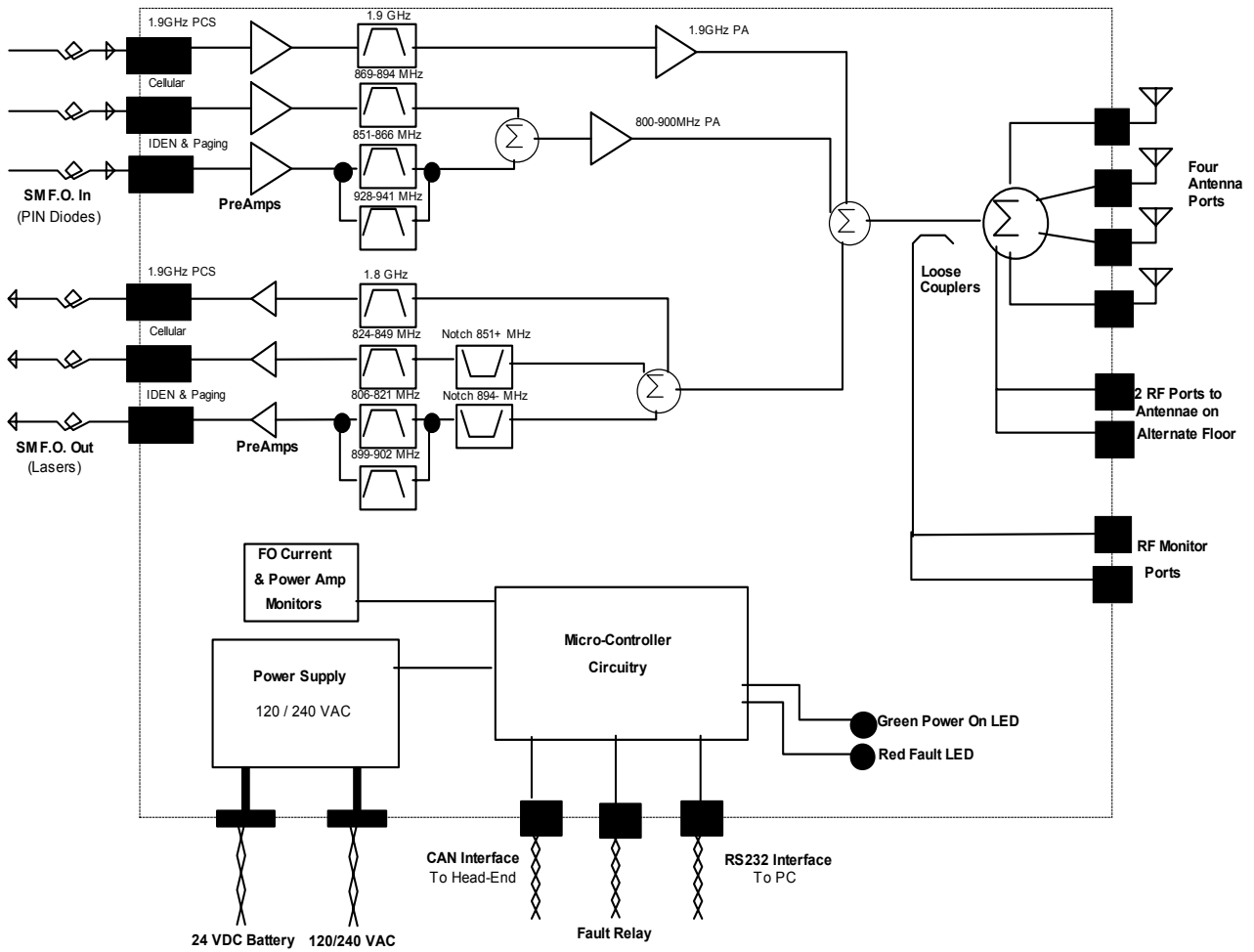
NOTE:

With these Modules, there is always a grouping of three (3) of LNKFIB-H01's to every four (4) LNKFIB-R01's.

Satellink Head-End Module



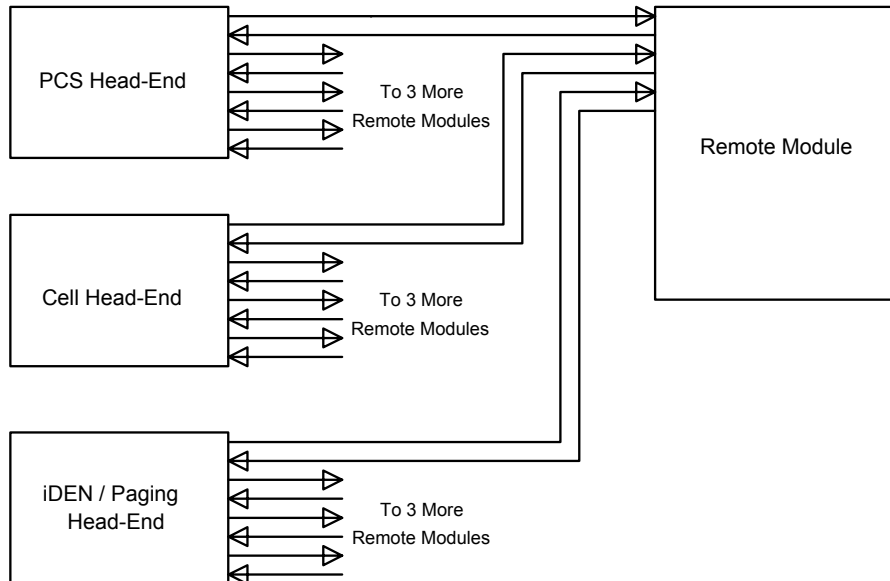
Satellite Remote Module



Satellink Head-End to Remote Interconnects

Head-End to Remote Fiber-Optic Connections

Groupings of 3 Head-Ends to every 4 Remotes



The Single-Mode Fiber-Optic interconnections between the Head-End and Remote Modules are based upon the Head-Ends being organized on a "per Fiber-Pair" system. This fundamentally means that an installation requires three Head-Ends for every four Remote Modules. It also means that if you have a fully optimized system with all Head-End ports in use, and you add one more Remote Module, then another three Head-End Modules are required.