



Servicing VHF. Broadband Version.

Kaval's advanced LinkNet VHF Service Module is a digitally controlled Class-A amplifier designed to operate within the LinkNet Convergence Platform to extend coverage of the VHF (136-174 MHz) spectrum range.

Software configured, this broadband amplifier's main function is to receive, amplify and transmit its designated frequency range and to ensure that clean, clear signals arrive at their intended destination.

Because of LinkNet's modular design, additional service modules can be added to keep pace with technological advancements or changes in user demand, making LinkNet the most flexible, scalable, and cost-effective solution on the market today.

Features & Benefits

Installation & Service Features All LinkNet Service Modules are 'plug-and-play/unplug-and-remove' to minimize installation down time and eliminate the need for extensive service equipment on site.

Hot Swappable Features LinkNet Service Modules can be added or replaced within the LinkNet Convergence Platform without powering down the system. This provides quick and easy maintenance with no disruption to service.

Diagnostic Features Each LinkNet Service Module automatically performs a self-diagnostic check when inserted into the chassis. As well, all major fault conditions are constantly monitored, including:

Primary power failure

Thermal management

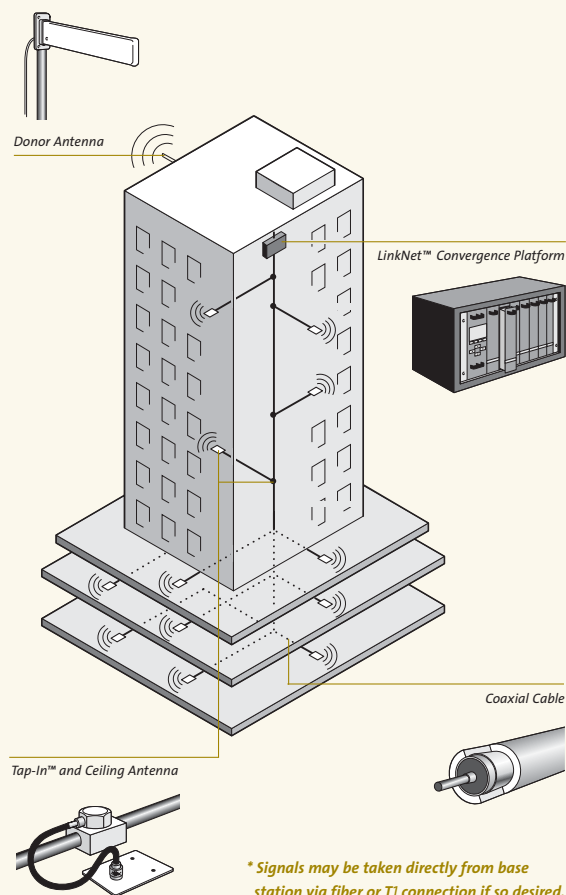
Over-current/under-current

™ Trademark of Kaval Wireless Technologies.

SM Service Mark of Kaval Wireless Technologies.

Product Deployment

Signals are received via an off air donor antenna located on the exterior of the building, from a nearby macro cell site.* The LinkNet Convergence platform converges and amplifies signals which are then distributed to each floor via coaxial cable. Kaval's patented Tap-In signal taps and a series of ceiling mounted antennas provide balanced coverage throughout the building.



Specifications

Module Specifications

Frequency Range	LNKA100-A 136-155 MHz, LNKA100-B 150-174 MHz
Modulation and Bandwidth	Broadband Amplifier
RF Gain Adjustment Range	+34 dB to +84 dB, in 1 dB increments
AGC Control Adjustment Range	+15 dBm to +30 dBm
3rd Order Intercept Point IP3	+47 dBm Typical
Noise Figure	<8 dB, 5 dB Typical
Transmit Duty Cycle	Continuous
Transmit Spurious	-13 dBm Maximum
Receive Conducted Spurious	-57 dBm Maximum
Power Module Supply Requirements	40 Watts Maximum
Group Delay	<5 μ s
RF Connectors	SMA (50 Ω) Connectors on back of Chassis
Connections	DB-15 Connector on back of Chassis provides Per-Module Fault Relay, Interconnect to other Modules, and RS-232 connection.
Front Panel Indicators	Operating, Stand By, Fault, Program Mode, Receive, Transmit
Configuration Options	Modules may be configured via optional Gateway Module, or via PC and a RS-232 Connection

Mechanical Characteristics

Dimensions (W x H x D)	2" x 9.11" x 14"
Weight	10 lbs. approx.
Operating Temperature Range*	-10°C to +50°C
Operating Humidity Range	10 to 90% RH, Non-Condensing

* Consult Kaval for installation specific forced-air cooling requirements.

Specifications are subject to change without notice.

V1-10/03