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VoIP



Data Sheet for SL-24U

54 Mbps , 5 mile, secure point to point @ 24 GHz unlicensed

No need to lay cable!

SnapLink™ provides a secure, interference free, high speed, focused beam point to point link up to 5 miles. The SnapLink™ product family of IP Radios is easy to install and turn up for data, VoIP and video transport. It uses standard 802.3 Ethernet protocol interfaces to provide 54 Mbps (Half Duplex) of clear digital IP transport. Because the SnapLink™ SL- 24U radio operates in the unlicensed 24 GHz band, there is no need for frequency coordination or interface with the FCC.

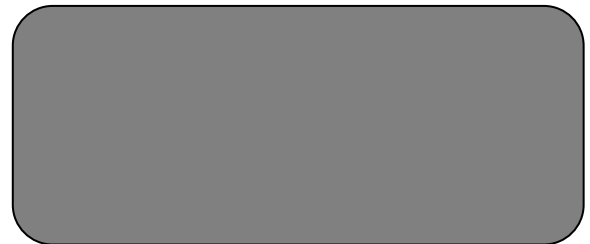
SnapLink™ Radios are a "Snap" to install with its single unit design that combines the radio and antenna in a rugged mechanical package. A single cable provides both data and power. The units automatically acquire each other as soon as power is applied. LEDs on the back of the units provide alignment guidance with no need for laptops, voltmeters, tone generators or any external alignment tool. Because SnapLink Radios uses a flexible, low cost 2" to 4" pole - mounting system, installation is a "Snap".



The SL-24U is available now in the US and Canada at the license free 24 GHz band. This band gives secure, interference free service when a highly reliable signal is desired. The SL- 24U will adjust data rates in severe weather conditions to keep the link and the service alive. The SL-24U is ultra secure because of its narrow – focused beam point to point signal at a frequency that is extremely difficult and costly to find, intercept or jam. The SL-24U comes standard with 64/128 bit WEP, WPA-PSK, WPA2 –PSK AES encryption.

The SL-24U is ideal for private and corporate IP backhaul, VoIP applications internet network extensions and local bypass. This cost effective radio is made for corporate, private and government network operators interested in clear wireless data.

- Features**
- Cost Effective IP Radio
 - 54 Mbps up to 5 miles
 - Operates in an Interference Free Unlicensed Band
 - A "Snap" to : Install : Turn Up : Maintain
 - "Plug and Play" Ethernet Interfaces



Item	Specification	Comments
Air Interface		
Frequency *	24 GHz unlicensed. (24.05 – 24.25 GHz)	Other millimeter frequencies on request
Modulation	DQPSK	
Spread Spectrum	OFDM / Direct Sequence Spread Spectrum	
Point to point		
Antenna Type	12" reflector antenna	
Antenna Gain	34.2 dBm typical at millimeter wave	12" antenna @ 24 GHz
Antenna Beam Width	2.6° typical, 3dB beam width millimeter wave	12" antenna @ 24 GHz
Network Interface		
Network Topology	Pt. to Pt.	
Effective Data Rate	54 Mbps half duplex @ error rate of 10 ⁻⁶ or better	Distance and frame size dependent
Cable	Category 5/6	
Connector	RJ-45 female modular jack	Data and DC power
Interface	10/100BaseT via AC power adapter	
Range		
Range millimeter wave	54 Mbps half duplex to 5 miles.	12" antenna
Physical & Power (POE)		
Weight	5 kg typical	Excluding the mount
Mounting	Pipe or wall mount	
Grounding	8 mm bolt on the transceiver for grounding	
DC voltage	+20V _{DC} to +56V _{DC} into the receiver	
Power Consumption	10 Watts nominal	
Dimensions	304mm (12") x 304 mm (12") x 51mm (2")	Excluding antenna
Environmental		
Enclosure	All weather, designed to IP67 specifications	
Operating Temperature	-35° to + 55° C	
Specifications at +25° C unless otherwise specified		

* SnapLink can be made in any frequency band between 20-40 GHz