

SkyLink-900

Compact Ethernet Narrowband PTP Radio
For Long-Haul Backbone Connectivity



Features

- Narrowband digital microwave system for long links – all indoor terminal
- Longer than 120 miles possible
- Licensed band for FCC and NTIA at 900 MHz
- Up to 5W transmit power
- 100kHz and 200kHz channel support
- Scalable modulation – QPSK, 16, 32, 64, 128 and 256QAM
- Dynamic hitless adaptive modulation and adaptive forward error correction techniques for improved link performance
- High priority and low priority user traffic per 10/100/1000Base-T Ethernet ports
- AES 128-bit / 256-bit encryption
- 1+1 hot-standby split protection support
- Simple coaxial cable connection to antenna
- User friendly web GUI management
- SNMP remote management

Applications

- Access to remote sites
- Long haul PTP link
- Enterprise and private networks
- Government and defense networks
- Public safety networks



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General Information

Frequency Range	933-936MHz (low), 943MHz
T-R Spacing	9MHz
RF Channel Spacing	100kHz / 200kHz
Emission Designator	100KD7W / 200KD7W
Frequency Accuracy	2 ppm

Radio Information

	QPSK	16QAM	32QAM	64QAM	128QAM	256QAM
Modulation	14	14	13	12	11	9
Transmit Power	35	33	33	32	31	29
Receive Sensitivity – Strong FEC (BER 10-6)	34	32	32	31	30	28
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Modulation

	100kHz User throughput (kbps)		200kHz User throughput (kbps)	
	Strong FEC	Medium FEC	Strong FEC	Medium FEC
QPSK	125	134	282	302
16QAM	251	269	564	605
32QAM	313	336	705	756
64QAM	376	403	846	907
128QAM	438	470	987	1058
256QAM	501	538	1128	1210

Payload

Ethernet: up to 1210 kbps

Physical Interfaces

Ethernet

High Priority Ethernet: 1000Base-T

Low Priority Ethernet: 1000Base-T

Management: 1000Base-T

SFP Slot

EMM

Split Protection

Antenna

Type-N Female, 500hm

Power

Input Power

AC 100-240V

Power Consumption

Max 120 Watt

Management

Remote Access

1000Base-T

Mini USB - IP over USB

SNMP V2, V3

Web-based GUI (HTTP/HTTPS)

Telnet/SSH - Command line interface

Interface: 10/100/1000Base-T, RJ-45

Local Access

Ethernet: GUI/Telnet

Interface: USB Female, 500hm

RF Switch / Alarm Port

1 x RJ-45

2 x output

2 x input

Environmental

Indoor Unit

Operating temperature: 0 to 45°C

Relative Humidity: 0 to 95%

Altitude: 4500m

Outdoor Unit

Operating temperature: -33 to 55°C

Relative Humidity: 0 to 100%

Altitude: 4500m

Mechanical

Indoor Unit

Size: 19W x 9.9D x 3.6H inches (2RU)