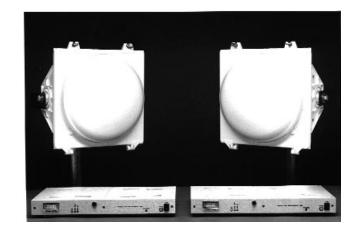
Microwave

MODEL 2420

24.0-24.25 GHz MILLIMETER WAVE RADIO LINK

- ▲ Point-to-Multipoint Audio Data Link
- ▲ 4-Wire or 2-Wire Audio Interface FSK Compatible
- ▲ FCC Licensing = None
 Part 15 Compliant
- ▲ NEMA Temperature Range
- ▲ Two Hour Installation Time
- ▲ Flexible Two Antennas All Frequencies
- ▲ Low Cost Fast Payback
- ▲ Low Maintenance Simple, Compact & Trouble-Free
- ▲ Audio Interface Multiple Channels
- ▲ 2 Year Warranty



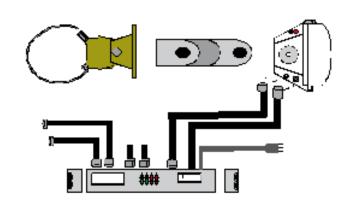
The GDI 2420 series millimeter wave radio is a versatile, simple, low cost alternative to a land-line audio circuit.

If your requirements are for 4-wire or 2-wire FSK Point to multipoint communication the Model 2420 millimeter wave radio link affords you a low cost radio solution.

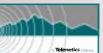
Constraints due to cost, response time or right-of-way that you may have with land line implementation you may find the Model 2420 audio radio to be quicker, easier and more affordable.

Applications

- · Point-to-multipoint communication
- Audio connection to extend hardwire communications
- · Bridge existing hardwire







Technical Summary

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Frequency Range	24.0 to 24.25 GHz
Standard TX/RX Spacing	125 MHz
RF Channel Bandwith (minimum)	5 MHz
Modulation type	FM
Transmission Configuration	Audio
Audio Interface Bandwith	700 Hz to 20 KHz
Audio Interface Response	0 to -55dBm
Frequency Channels	16 Pairs

Transmitter Characteristics

RF Source	Oscillator/Multiplier
Guaranteed power output	250 mV/m @ 3 m from transmit antenna
Frequency Stability (-37 to +74 C)	+/- 0.0005%

Receiver Characteristics

Туре	Superhetrodyne
Noise Figure	6.2 dB Typical
Threshold	- 86 dBm
Maximum Receiver Input	- 10 dBm

Antenna Characteristics

Туре	Parabolic
Diameter	12.5 Inches (31.8 Cm)
Polarization	Linear
Front to back ratio	40 dB
Beamwidth @ 3 dB points	3.5 Degrees

Environmental Characteristics

Ambient Temperature Range	- 37 to +74 Degrees C
Storage and Transportation	- 40 to + 80 Degrees C
Humidity	Up to 100%

Transmission Data

System Gain	137 dB
Total Thru-put Delay (unit to unit)	0.80 Micro/s max

Input Voltage Requirements

Power Input		120 VAC ± 10%
Brown-out voltage		90 VAC
Line frequency		50/60 Hz

FCC Information

FCC Identifier	I08SDC-2423
FCC Rules	Part 15
Frequency range	24.0 to 24.25 GHz
Frequency tolerance	+/- 0.0005%
FCC Maximum power output	250 mV/m @ 3 m from transmit antenna

Size and Weight

U UTDOOR	UNIT	(EXCLUDING	MOUNT)		
Height		Depth	Wid	th W	eight
15"		12"	15"	10	pounds
20 am		20	20 000	Λ	6 1,0

Indoor Unit

Height	Depth	Width	Weight
1.75"	8.75"	16.75"	3.7 lbs
4.5cm	22.25 cm	42.5 cm	4.6 kg

CONNECTORS AND CABLING

COMMENDATION OF THE COMMEND AND A	ULIDILITO
Cable	Belden 9773
Connector Antenna	Amp 7 pin CMC 208945-5
Connector Interface	Phoenix 4 Pin and Phoenix 6
	Pin
Water Resistant Strain Relief	Glenair
Power connection (110 VAC)	Six foot power cord with 3 prong plug

POWER CONSUMPTION

Outdoor TX/RX	12 Watts Maximum per link
Indoor Unit	3 Watts Maximum

POWER SUPPLY OPTIONS

230 VAC	
48 VDC	
24 VDC, for Solar	

FOR INQUIRIES ABOUT OUR COMPLETE LINE OF COMMUNICATION PRODUCTS "Made FOR TRAFFIC" AND YOUR LOCAL DISTRIBUTOR CALL:

 $800-426-0523 \quad \text{or} \quad 775-345-8000 \\ \text{Visit our website at www.sgdi.com} \quad 775-345-8000 \\ \text{E-mail traffic@sdgi.net}$

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