



Model 2420 Microwave Radio



Description

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.

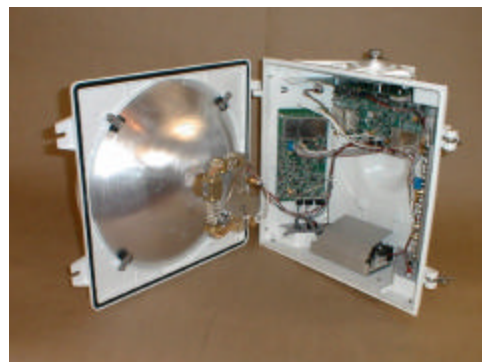
Constraints due to cost, response time or right-of-way that you may have with land line implementation you may find the Model 2420 audio radio to be quicker, easier and more affordable.

FEATURES

- * No FCC license required (Part 15 Compliant)
- * Point-to-Multipoint Audio Data Link
- * 4-wire or 2-wire Audio Interface FSK Compliant
- * NEMA Temperature Range
- * Audio Interface Multiple Channels
- * Two Hour Installation Time
- * Low Maintenance—Simple, Compact & Trouble-Free

Applications

- * Point-to-Multipoint Communication
- * Audio Connection to extend hardwire communications
- * Bridge existing hardwire



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Technical Summary

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

Transmitter Specifications

RF Source	Oscillator/Multiplier
Guaranteed Power Output	250 mV/m @ 3 m from transmit antenna
Frequency Stability (-37 to +74°C)	+/- 0.001%

Receiver Specifications

Type	Superhetrodyne
Noise Figure	6.0 dB Typical
Threshold	-86 dBm
Maximum Receiver Input	-10 dBm

Antenna Specifications

Type	Parabolic
Diameter	12.5" (31.8 cm)
Polarization	Linear
Gain	33 dB
Front to back ratio	42 dB
Beamwidth @ 3 dB points	3.5 degrees

Environmental Specifications

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

Transmission Data

System Gain	145 dB
Total Thru-put Delay (unit to unit)	0.80 Micro/s max

Input Voltage Requirements

Power Input	93 to 265 VAC
Brown-out voltage	90 VAC
Line Frequency	50/60 Hz

FCC Information

FCC Identifier	I08SDC-2423
FCC Rules	Part 15

Size and Weight

Outdoor Unit

Height	Depth	Width	Weight
15"	12"	15"	10 lbs
38cm	30 cm	38 cm	4.6 kg

Indoor Unit

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

Connectors and Cabling

Cable	Belden 9773
Connector Antenna	AMP 7 pin CMC 208945-5
Connector Interface	Phoenix 4 and 6 pin
Water Resistant Strain Relief	Glenair
Power Connection (110VAC)	Six foot cord

Power Consumption

Consumption per terminal	25 W max
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Specifications subject to change without notice