

TAC 2020

Spread Spectrum Radio



Features

- Frequency Hopping
- Up to 57,600 bps
- Automatic Configuration
- Data Repeaters
- Excellent Sensitivity & Range

Applications

- SCADA Systems
- AMR/Utility Data
- Oil and Gas Pipeline Monitoring
- Water/Waste Water Systems
- Distribution Automation

General Description

Alligator's 2.4 GHz license free spread spectrum radio employs the latest wireless data transfer technology to provide the most reliable and secure performance. The Model 2020 is a very intelligent radio. When placed within a network, it automatically configures itself to be a master or a remote. When connected back-to-back, the pair of radios becomes a repeater without the need of user intervention. The radio can also automatically configure itself to be used in Point-to-Point or Point-to-Multipoint applications when placed within a network.

With low power consumption as the prime design objective, the TAC2020 employs a very sensitive front end. This allows lower RF power without the sacrifice of coverage. Correction techniques are inherent in the design of the radio's performance. The radio's doze mode or sleep mode helps conserve power where power consumption would be a concern. Alligator's spread spectrum radios are technically sophisticated yet easy to set up, and can be deployed quickly to save time and money.



Alligator
Communications, Inc.

TAC 2020

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Specifications

RADIO

Frequency:	2.4000 to 2.4835 GHz
Radio Type:	Frequency Hopping Spread Spectrum
Radio Configuration:	Automatic configures to Point-to-Point, Repeater, or Point-to-Multipoint
Channels:	25 (7 hop patterns)
Radio Address:	Over 45,000 user selectable
Radio Range:	Up to 10 miles with high gain antenna
Error Detection and Correction:	CRC
Data Rate:	2,4000 to 57,600 bps (with over-the-air at 19,200 bps)
Hardware Interface:	RS232, RS485 (Optional)
Receiver Sensitivity:	-105 dBm
RF Power:	+17dBm
Protocol:	User Transparent
Certifications:	FCC, Industry Canada, China, Europe, Brazil

GENERAL

Input Voltage:	7 Vdc to 18 Vdc
Power Consumption:	
Transmit Mode:	2.8 W (240 ma)
Receive Mode:	0.9 W (70 ma)
Sleep Mode:	12 uW (1 ua)
Over Current Protection:	Internal Self Resetting Solid State Fuse
Connectors:	
Antenna:	Type "N" Female
Power:	¼ Turn Locking
Data:	DB-25 Female
Environment:	
Temperature:	-40°C to +70°C
Humidity:	0% to 95% (Non-condensing)
Dimensions:	1.4" (3.6cm)H x 5.25" (13.3 cm)W x 6.75" (17.2cm)L
Material:	Aluminum Alloy Enclosure
Weight:	1.75 pounds, 0.8 kg

Specifications are subject to change without notice.



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