

900 MHz

Alligator Communications Model 2888 Series

900 MHz Licensed MAS Radio



Features:

- Ethernet and RS-232 Interfaces
- SNMP or Telnet network management
- AES128 and AES256 Encryption
- Robust 4GFSK modulation
- Automatic Frequency Calibration

Applications

- SCADA Systems
- Utility Data Communications
- Oil & Gas Pipeline Monitoring
- Water Systems
- Distribution Automation

General Description

Alligator now offers the most secure and robust multiple address licensed radio in the industry. Featuring both Ethernet and RS-232 interfaces, it automatically encapsulates and encrypts any SCADA protocol on to a secure 4GFSK modulation format that is sent over a standard 12.5 kHz frequency channel. Frequency synthesis permits selection of any channel pair in the 900 MHz band to <1 ppm accuracy.

Automatic frequency control keeps all remote radios phase locked to the master frequency. Several modes of network management including SNMP and Telnet to permit tight monitoring and control, totally transparent to primary data traffic. These features make Alligator Communications the clear choice for MAS radio systems because of its superior flexibility and system transparency.



Alligator
Communications, Inc.

Model 2888 Series Remote Radio

Technical Specifications

TRANSMITTER

RF Output Power	0.5 W to 5W
Impedance	50 Ohms
Frequency Range	820 MHz-960 MHz*
Frequency Step Size	12.5 kHz
Frequency Accuracy	<1 ppm
Modulation	4GFSK
Symbol Rate	4800 Hz
Data Rate	9600 bps
Maximum Frequency Deviation	2400 Hz
Bandwidth	12.5 kHz

GENERAL

Frequency	820-960 MHz*
Input Voltage	13.8 Vdc
Current Consumption	
Receive Mode	< 120 mA
Transmit (5W)	< 1.7 A
Data Rate	9600 bps
Connectors	
Antenna	Type N female
Power	2 Pin Captive Rectangular
Data (RS232)	DB9F
Data (10/100 Ethernet)	RJ45
Environment	
Temperature	-30°C to +60°C
Humidity	95% at 40°C
Dimensions	6.75" x 1.5" x 5.75"
Weight	2 pounds

RECEIVER

Input Sensitivity	-110 dBm at 10 ⁻⁶ BER
Impedance	50 Ohms
Frequency Range	820 MHz to 960 MHz
Frequency Step Size	12.5 kHz
Frequency Accuracy	<1 ppm
Modulation	4GFSK
Symbol Rate	4800 Hz
Data Rate	9600 bps
Bandwidth	12.5 kHz

Ordering information (Suffix)

Series A	VF interface
Series B	Built-in Bell 202 Modem RS232 interface
Series D	4800 Baud RS232 Interface
Series D9	9600 Baud RS232 interface
Series E	Ethernet and RS232 Interface

*Frequency range Series E may vary.



Alligator
Communications, Inc.

317 Brokaw Road
Santa Clara, CA 95050
www.alligatorcom.com

Tel: (408) 327-0800
Fax: (408) 327-0808
info@alligatorcom.com