



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



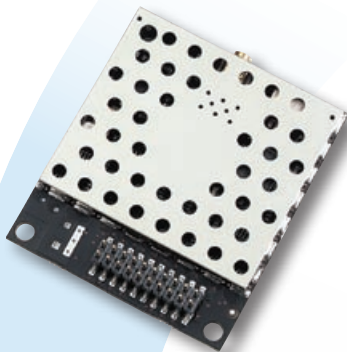
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**THE FASTEST WAY TO WIRELESS**

Compact, low-cost 868MHz radio modules can replace miles of cable in harsh industrial environments. Using field-proven technology that needs no additional ETSI (Europe) licensing, OEMs with little or no previous RF experience can easily make existing systems wireless.

AC4486s feature a number of on-the-fly control commands, providing OEMs with a very versatile interface for any application. The modules can be used as direct wire replacements, requiring no special host software for communication. All synchronization and RF system data transmission/reception is performed by the radio module.

AC4486s operate in a point-to-point or point-to-multipoint, client/server or peer-to-peer architecture. They are (socket-compatible network-wide) with 2.4GHz and 900MHz models, preserving OEMs' hardware/software investments while providing solutions that meet different market, regulatory and environmental needs.

FEATURES

- Approved for European use
- Seamless cable-to-radio module replacement
- High 868MHz data rate: 76.8 Kbps
- Small form factor: 1.65 x 1.9 inches
- Operates in -40°C to +80°C temperatures
- Socket-compatible with 2.4GHz models

MARKETS

- Recreation Areas
- Pool & Spa Control
- Point of Sale
- Gaming Devices
- Utilities Management

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FLEXIBLE RF PROTOCOL

Laird Technologies' embedded transparent protocol simplifies the OEM's integration process by utilizing drop-in installation. As each radio module receives raw data, it manages its over-the-air protocol to assure successful communication. Headers, data packet length, and CRCs are not required. The RF232 supports simple cable-replacement to complex peer-to-peer configurations; and broadcast communication to all radio modules or address packets to a specific destination using unique MAC addresses embedded in each radio module.

SPECIFICATIONS

Parameter	AC4486-5
Interface	20-pin mini connector
Frequency	869.7-869.65 MHz
Modulation	FSK
Serial interface options	3V TTL
Serial interface data rate	Up to 115.2 Kbps
Output power (w/ 2dBi antenna)	5mW variable
Power consumption (transmit/receive)	40mA typical
Security	One-byte system ID
Sensitivity (w/ 2dBi antenna)	-100 dB typical @ 76.8 Kbps RF Data Rate
Voltage	3.3V nominal +/-2%, +/-30mV
Range	Up to 1000 meters line of sight
Temperature	-40° to +80°C
Humidity (non-condensing)	10% to 90%
Dimensions	1.90 x 1.65 x 0.20" (49 x 42 x 5 mm)
Weight	< 0.75 oz (< 21 g)
Antenna	External MMCX connector

ORDERING INFORMATION

AC4486 - 5M	868MHz transceiver, TTL serial RS232, 0-250mW, -40° to +80° C, MMCX antenna
AC4486 - 5M - 485	868MHz transceiver, TTL serial RS485, 0-250mW, -40° to +80° C, MMCX antenna
AC4486 - 5A	868MHz transceiver, TTL serial RS232, 0-250mW, -40° to +80° C, integral antenna
AC4486 - 5A - 485	868MHz transceiver, TTL serial RS485, 0-250mW, -40° to +80° C, integral antenna

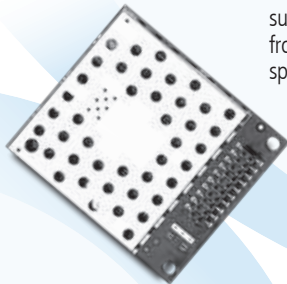
RF PROTOCOL MODES

- a) Communication
 - Unicast (one-to-one addressing)
 - Broadcast (one-to-multiple addressing)
- b) Acknowledgement mode (ACK)
 - API with hardware and/or software
 - ACK indication

INTERFACE PROTOCOL

- a) On-the-fly radio module configuration:
 - Destination address
 - RF transmit power
 - Broadcast/addressed
- b) 9-bit serial interface mode
- c) A/D, D/A generic I/Os
- d) Variable baud rate
- e) RF packet size, timeout control
- f) Onboard temperature sensor
- g) Handshaking, CTS/RTS
- h) In-range indicator
- i) Error detection
 - Onboard CRC
 - Duplicate packet filtering
- j) Data encryption standard (DES)

The details contained within the document are subject to change. Download the product specification from www.lairdtech.com/wireless for the most current specification.



LWS-SPEC-AC4486 0309

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