AEROCOMM Embedded Wireless Modules



NEXT

Products may be RoHS compliant. Check mouser.com for RoHS status.

2.4 GHZ AC4424 SERIES - WIRELESS TRANSCEIVER MODULES, FLEXIBLE PROTOCOL

AC4424 is a 2.4GHz FHSS digital transceiver that represents a breakthrough in industrial RF communication. Comprised of a complete, agency-certified radio and sophisticated RF232® protocol, AC4424 simplifies the OEM's design effort and assures successful field operation.

RF232 makes AC4424 a drop-in module for seamless integration, easy operation and fast time-to-market. As each transceiver receives raw data, it manages protocol over-the-air to assure successful transmissions. Headers, data ength and CRCs are not needed. The process is transparent to the OEM

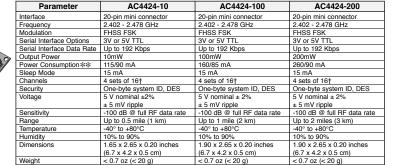


* Although AC4424s will not talk to AC4490s, socket-compatibility allows for seamlessly interchanging the

- modules network-wide.

 **Power consumption assumes 50% transmitter on-time

† 32 channels in U.S.: 16 channels in Spain, 16 channels in France



MMCX receptacle

MMCX receptacle For quantities of 100 and up, call for quote

MOUSER	AeroComm	Description	Price Each	
STOCK NO.	Part No.	art No.		50
814-AC4424-10	AC4424-10	2.4GHz OEM Transceiver, 5V TTL Serial, 10mW	92.00	90.00
814-AC4424-10A	AC4424-10A	2.4GHz OEM Transceiver, 5V TTL Serial, 10mW, integral ant.	95.00	93.00
814-AC4424-100	AC4424-100	2.4GHz OEM Transceiver, 5V TTL Serial, 100mW	98.00	95.00
814-AC4424-200	AC4424-200	2.4GHz OEM Transceiver, 5V TTL Serial, 200mW	99.00	97.00

Antenna

2.4 GHZ WIRELESS TRANSCEIVER MODULE DEVELOPMENT KITS, ANTENNAS, AND ACCESSORIES

RoHS Compliant

entities of 10 and up. call for quote

ACE6790 Model

20-pin mini connector 869.40 – 869.65MHz *

SF FSK

AeroComm provides a complete development environment to help you integrate and test RF communication in a matter of minutes

Development Kits Include:

- 2 Transceivers
- 2 Adapter Boards
- Software Utilities 2 AC Power Adapters
- 2 DB9 serial cables
- 2 Dipole Antennas
- Documentation



System Requirements:

Win® 95, 98, ME, NT, XP, or 2K

or one PC with two serial ports

Two PCs each with one serial port.

To quantities of to and up, can for quo						
MOUSER STOCK NO.	AeroComm Part No.	Description	Price Each			
2.4 GHz Development Kits						
814-SDK-AC4424-10	SDK-AC4424-10	AC4424-10 Developer Kit	199.95			
814-SDK-AC4424-10A	SDK-AC4424-10A	AC4424-10A Developer Kit	199.95			
814-SDK-AC4424-100	SDK-AC4424-100	AC4424-100 Developer Kit	199.95			
814-SDK-AC4424-200	SDK-AC4424-200	AC4424-200 Developer Kit	199.95			
2.4 GHz Antennas	•					
814-0600-00002	0600-00002	1/2 wave, 5", 2dBi, RA, MMCX plug	15.00			
814-0600-00008	0600-00008	1/2 wave, 5", 2dBi, MMCX plug	15.00			
814-0600-00014	0600-00014	1/2 wave, 5", 2dBi, RA, RPSMA	15.00			
814-0600-00012	0600-00012	7", 5dBi, RA, MMCX plug	16.00			
814-0600-00011	0600-00011	7", 5dBi, MMCX plug	16.00			
814-0600-00010	0600-00010	7", 5dBi, RA, RPSMA	16.00			
814-2150-00006	2150-00006	NZH2400 microstrip antenna	10.00			
814-1300-00023	1300-00023	5" RG178 coax, RA MMCX plug to RPSMA bulkhead	14.00			
2.4 GHz Accessories						
814-0700-00012	0700-00012	Samtec 20-pin mating connector for AC4424 and AC4490	4.00			
814-0650-00005	0650-00005	Power Supply, 7.5 VDC, 1.5A, Sw. Reg, 100-240 VAC	20.00			

Parameter

Serial interface options

Interface

Frequency * Modulatio

MMCX receptacle

868 MHZ AC4486/4868 SERIES - WIRELESS TRANSCEIVER MODULES

Compact 868MHz* transceivers can replace miles of cable in harsh environments. Using field-proven RF technology which needs no additional ETSI (Europe) licensing, OEMs with little or no previous RF experience can easily and quickly make existing systems wireless

Modules features drop-in installation and a number of on-the-fly control commands, providing OEMs with a versatile interface. They can be used as direct wire replacements, requiring no special host software for communication. All synchronization, and FF system data transmission/reception is performed by the transceiver. The modules are socket-compatible **E* with AeroComm's 900MHz AC4490 modules and 2.4GHz AC4424 models to allow for interchanging the network's frequency. This preserves OEMs' hardware/software investments while providing solutions that meet different markets and regulations



NEW

ROM SUPPLIER

RoHS Compliant

*The 868MHz frequency band is approved in Europe as an unlicensed spectrum subject to approval by device.

** Although AC4486/4868 radios will not talk to AC4490 radios, socket-compatibility

allows for interchanging the modules network-wide



ption			1	50
iption			Price Each	
Antenna	External MMCX connector	Exte	ernal MMCX co	nnector
Weight	< 0.75 oz (< 21 g)	< 0.75 oz (< 21 g)		
	(49 x 42 x 5 mm)	(49:	x 42 x 5 mm)	
Dimensions	1.90 x 1.65 x 0.20 inches	1.90	.90 x 1.65 x 0.20 inches	
Humidity	10% to 90%	10% to 90%		
Temperature	-40o to +80°C	-40o to +80°C		
Range	Up to 1000 meters	Up to 15 kilometers		
		Pin	11: 3.3V ±3%,	±100mV ripple
Voltage	3.3V nominal ±2%, +/-30mV	Pin	10: 3.3-5.5V ±	50mV ripple
Sensitivity (w/ 2dBi ant.) -100 dB typical @ 76.8 Kbps -103 dBm typical @		28.8 Kbps		
Security	One-byte system ID	One-byte system ID		D
Power consumption	40mA/30mA (transmit/receive)	240	240mA/36mA (transmit/receiv	
Output power (w/ 2dBi ant.)	5mW variable	250	250mW variable	
Jenai interiace data rate	1 OP 10 113.2 KUPS	Op 10 37.0 Rups		

ACE6490 Model

20-pin mini connector 869.70 – 869.65MHz \$

MOUSER	AeroComm	AeroComm Part No. Description		Price Each			
STOCK NO.	Part No.			50			
5mW Variable Modules							
814-AC4486-5M	AC4486-5M	868MHz transceiver, TTL serial RS232, 0-250mW, MMCX antenna	58.45	55.00			
814-AC4486-5A	AC4486-5A	868MHz transceiver, TTL serial RS232, 0-250mW, integral antenna	60.35	57.00			
250mW Variable Modules							
814-AC4868-250M	AC4868-250M	868MHz transceiver, TTL serial RS232, 0-250mW, MMCX antenna	78.65	75.00			

868 MHZ WIRELESS TRANSCEIVER MODULE DEVELOPMENT KITS, ANTENNAS, AND ACCESSORIES

AeroComm provides a complete development environment to help you integrate and test RF communication in a matter of minutes

Development Kits Include:

- · 2 Transceivers · 2 Adapter Boards
- Software Utilities
- 2 AC Power Adapters 2 DB9 serial cables
- 2 USB cables 2 Dipole Antennas
- Documentation

System Requirements:

- Win® 95, 98, ME, NT, XP, or 2K Two PCs each with one serial port,
- or one PC with two serial ports



For quantities of 10 and up, call for quot						
MOUSER AeroComm STOCK NO. Part No.		Description	Price Each			
868 MHz Development Kits						
814-SDK-AC4486-5M	SDK-AC4486-5M	AC4486-5M Development Kit	199.95			
814-SDK-AC4486-5A	SDK-AC4486-5A	AC4486-5A Development Kit	199.95			
814-SDK-AC4868-250M	SDK-AC4868-250M	AC4868-250M Development Kit	199.95			
868 MHz Antennas						
814-0600-00020	0600-00020	1/2 Wave Antenna, 7", 2dBi, RA, MMCX plug	16.00			
814-1300-00023	1300-00023	5" RG178 Coax Cable, RA MMCX plug to RPSMA bulkhead	14.00			
868 MHz Accessories						
814-0700-00012	0700-00012	Samtec 20-pin mating connector	4.00			
814-0650-00005	0650-00005	Power Supply, 7.5 VDC, 1.5 A, Sw. Reg., 100-240 VAC Input	20.00			

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