



ACE6490 Industrial RF Transceiver

Wireless data transmission from multiple sites.



- NEMA-4X rated package
- Durable Industrial grade enclosure
- One full watt of RF output power
- Up to 20-miles line-of-sight range
- Industrial temp -40° to +80° C
- RS232 & RS485 interfaces

Description

The ACE6490 Industrial RF Transceivers use Frequency Hopping Spread Spectrum modulation, where the units "hop" from frequency to frequency many times per second using a specific hop pattern applied to all the industrial RF transceivers in the same network. A distinct hopping pattern is provided for each Channel Number, thereby allowing multiple networks to co-exist in the same area without interference.

ACE6490 Industrial RF Transceivers operate in a Point-to-Point or Point-to-Multipoint, Server-Client architecture. One Industrial RF Transceiver is configured as a Server communicating to one or many Clients. To establish synchronization between industrial RF transceivers, the Server emits a beacon. Upon detecting a beacon, a Client industrial RF transceiver informs its Host and a RF link is established.

ACE6490 Industrial RF Transceivers implement a proprietary communication protocol providing secure data transmissions. Utilizing FHSS technology, the data remains reliable over long distances. Use of license free frequency bands ensures that the industrial RF transceivers are ready to use with no further certification requirements.

Each Industrial RF Transceiver is small and easily portable for use in mobile and temporary settings as well as for fixed installations. The ACE configuration software enables custom configurations based on unique application requirements.

Specifications

Transceiver Performance:

Output power: 1000mW

Transmission Range: Up to 1500 feet (450m) indoors; Up to 20 miles (32 km) line-of-sight

Data Rate: Up to 115.2 Kbps

RF Data Rate: 76.8kbps fixed

Receiver Sensitivity: -100dBm typical @ 76.8kbps RF Data Rate

Power Consumption (@ 12 Vdc): 400mA

Configuration Software: Easy-to-use Windows based software

Networking and Security:

Frequency band, RF Technology: 902 – 928, FHSS (USA); 915-928, FHSS (Australia)

Supported Network Topologies: Point-to-Point, Point-to-Multipoint

Channels: 32

Security: One byte System ID. 56-bit DES encryption key.

Antenna:

RF Connector: RPSMA Jack

Type: 1/2 Wave Dipole

Electrical:

Electrical Requirements: Line voltage 100 – 120V (240V outside US)

Power Supply: 6-foot cable, AC power connector

Environmental:

Environmental Conditions: Operating temperature -40° to +80°C; 10% to 90% humidity (non-condensing)

Physical:

Dimensions: 6.87 x 3.57 x 2.05 inches

Weight: 6 oz (170 g)

Serial Connector: 16-pin circular

Serial Cord Length: 6 feet (183 cm)

Price List

ACE6490K

Server/client radio kit.....\$1600

ACE6490

Client radio.....\$775

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