

# Spider IIAR



## Real-Time Locating System (RTLS)

### Benefits include:

- Automated check-in / check-out of inventory in a manufacturing work cell
- Plant floor inventory counting and management
- Reduction of set-up time through instantly locating tools and jigs
- Load-balancing of jobs across open work cells
- Automated usage monitoring of transport materials like pallets and containers
- Real-time supply chain visibility provides live, actionable information

For the ultimate in long-range tracking, the RF Code **SPIDER** system is unequalled. A fully automated, wireless means of data collection, the **SPIDER** can reliably track, locate and identify assets and information through the supply chain. Ideal for:

- Increasing manufacturing process velocity
- Work-In-Process inventory management
- Work load leveling / bottleneck analysis
- Pallet or container tracking
- Measuring “dwell time” in the global supply chain process

### ***A comprehensive, three-part system:***

**SPIDER Tags** emit a signal called a beacon and are attached to the assets being tracked. Benefits include:

- Small and lightweight – can be attached to almost anything
- Longer battery life – up to five years
- Long range - can be detected at ranges of up to 1000'
- Inexpensive – the lowest cost RTLS tag on the market

## ***Visible Assets .....Invisible Tracking***

**SPIDER Readers** placed throughout a facility identify and provide information to determine the location of Spider tags.

- Wireless LAN capability – reduces expensive installation costs
- Small footprint – mount readers anywhere
- Network appliance – sits on existing LAN
- Fault tolerant – buffers information in case of power outage

**TagTracker** is advanced development platform software that manages all the readers and location information. Smoothly interfaces with your legacy applications.

- Standards-based – Windows® 2000 and SQL 2000
- Fault tolerance – for mission critical applications
- Scalable – for large or multi-site installations

# Spider IIIAR

## Real-Time Locating System

### **SPIDER Readers**

#### Capabilities

- Simultaneous identification (collision avoidance): 500 tags @ 7 second beacon intervals
- Communication protocol: Standard wired Ethernet or 802.11b wireless
- On-line range control: Provides digital control of readers' read range
- Operating frequency: 303.8MHz

#### Read Ranges

- Helical antenna: Up to 150'
- Omni angle antenna: Up to 350'
- YAGI antenna: Up to 1000'

#### Physical Characteristics

- Length: 14"
- Width: 9"
- Height: 2"
- Weight: 4 lbs.
- Case: Aluminum with powder coat
- Mounting: Ceiling or wall mount provision or desktop operation
- Optional enclosure available for NEMA4 applications

#### Environmental

- Operating temperature: 32°F to 131°F (Wireless)
- Operating temperature: -4°F to 131°F (Wired)
- Storage temperature: -4°F to 158°F (Wireless)
- Storage temperature: -40°F to 167°F (Wired)
- Operating humidity: <95%
- Storage humidity: <98%

### **SPIDER Tags**

#### Capabilities

- Transmission rate: 7 seconds
- Operating frequency: 303.8MHz
- Identification range: Up to 1000'
- Unique codes: Over 4 billion
- Battery life: 3-5 years

#### Physical Characteristics

- Length: 2.4"
- Width: 1.2"
- Height: 0.4"
- Case: Plastic

#### Environmental

- Operating temperature: -4°F to 140°F
- Storage temperature: -40°F to 167°F
- Operating humidity: <95%
- Storage humidity: <98%

