



Industrial Networks
YardMaster® Monitor™
AFFORDABLE, REMOTE AEI TAG READER SOLUTION

APPLICATIONS

YardMaster® Monitor™ Gate and Track

The **YardMaster® Monitor™ Gate and Track** system accurately verifies the arrival and departure of railcars by scanning the AEI tag on the railcar as it passes. Installed at key points along trackage, the system provides accurate locations of railcars in your facility. Able to handle the back and forth motion of railcars as they are switched to your facility, the system transmits railcar locations via wireless link to YardMaster®. The system also:

- Opens and closes YardMaster® visit records.
- Confirms switches.

YardMaster® Monitor™ Scale

The **YardMaster® Monitor™ Scale** system integrates with static and motion weigh scales to collect accurate railcar weights. The system integrates with your scale controller to capture accurate, railcar-specific weights and then forwards the data for billing and invoicing purposes. The system also:

- Integrates with scale controllers from many manufacturers.
- Reads the AEI tag and captures weight.
- Forwards railcar and weight data to your network
- Displays overload alerts.

YardMaster® Monitor™ Loadbay

The **YardMaster® Monitor™ Loadbay** system accurately verifies railcars located in the loading/unloading area by scanning the AEI tag on the railcar as it is being loaded or unloaded. The YardMaster® Monitor Loadbay system is able to handle the back and forth motion of railcars as they are switched in the loading area, then transmits via wireless link this information to YardMaster®. The system also:

- Puts railcar on loading spot in YardMaster®.
- Confirms switch on loading spot.
- Triggers change of railcar status from empty to load or load to empty.

APPLICATION BENEFITS



- Automates all processes and eliminates human error.
- Optimizes space utilization and increases overall efficiency.
- Maximizes asset management.
- Captures exact date/time stamp of units entering/exiting your facility for tracking reporting and accurate calculation of charges.
- Reports real-time inventory levels including switch and storage locations.
- Increases personnel safety.
- Ensures compliance with critical government regulations.
- Installs quickly and inexpensively.
- Reduces billing mix-ups.
- Provides remote access to troubleshoot issues for reduced down time.
- Future load bay and multi-track capabilities.

Industrial Networks offers 24/7 support, complete site commissioning and full training on our systems. Our frequent system checks automatically notify an Industrial Networks technician of problems for fast resolution. *Established interface with YardMaster®, the leading yard management software system from Bourque Data Systems.*



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HARDWARE FEATURES

- Uses a 400 MHz Intel PXA255 XScale processor.
- Easy to use and highly configurable Windows CE 4.2.NET operating system.
- Unique “plug and play” connectivity installs easy and keeps maintenance costs low.
- Real-time clock with system watchdog timer.
- Configurable to allow multiple wireless communication options (802.11b, WAN and Bluetooth®) in the same device.
- Durable to withstand the rigors of industrial environments and extreme weather conditions.
- Weatherproof tamper-resistant housing.
- UL Certification System.
- Remote access for maintenance, configuration and software upgrades.
- Customizable operating modes and software programmability allow for a wide range of applications and reporting formats.

Established interface with YardMaster®, the leading yard management software system from Bourque Data Systems.

At Industrial Networks we affordably integrate systems to meet today's challenges. Installing our AEI readers at entry/exit points, switch or storage tracks, weigh scales and load bays within your facility will make your job easier, increase efficiency and save money. Our immediate event reporting allows fast resolution of problems. Using our readers enhances customer services levels and, most importantly, ensures greater safety for your personnel. Industrial Networks' readers are affordable with quick ROI.

Call us today for rates.



**I N D U S T R I A L
N E T W O R K S**

► SYSTEM INTEGRATION FOR TODAY'S CHALLENGES.

Stationary Reader System

INTEGRATION

The system is fully integrated with Bourque Data Systems' YardMaster® software.

COMPUTING SPECIFICATIONS

Processor

400MHz Intel® PXA255 XScale.

Operating System

Windows CE 4.2.NET.

Memory

Up to 64Mbytes of soldered SDRAM.
Up to 32Mbytes of Intel StrataFlash®.

Network Support

10/100BaseT Ethernet (RJ45).

Serial Ports

2 x RS232 (16550-based UART) for AEI antenna communications.
1 x RS232 (16550-based UART) for auxiliary device communications. (9-pin "D-type" make connectors.)

Integrated Peripherals

Real-time clock; system watchdog timer.

AEI ANTENNA SPECIFICATIONS

Compatibility

Reads AAR (Railroad) full-frame tags.

RF Power

User-selectable up to 2000mW.

RF Band

User-selectable; 902-904MHz and 909.75-921.75MHz

Optimal Read Range

Up to 12 ft (3.7m)

RF Power

User-selectable up to 2000mW

RF Band

User-selectable; 902-904MHz and 909.75-921.75MHz

Optimal Read Range

Up to 12 ft (3.7m)

Operating Voltage

24VDC

Enclosure

Weatherproof, tamper-proof, polycarbonate housing

Dimensions

15.5" (W) x 15.5" (H) x 3.25" (D)
(39.4 cm x 39.4 cm x 8.25 cm)

Weight

9.5 lbs. (4.3 kg.)

Operating Temperature

-40°F to +122°F (-40°C to +50°C);
Humidity 0-90%, relative, non-condensing

OPTIONAL WIRELESS NETWORK ACCESS

Network Standard

IEEE 802.11b and IEEE 802.11g.

Data Rates Supported

802.11g: 1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, and 54 Mbps.

Encryption

Hardware-Assisted AES Encryption.
IEEE 802.11i-Compliant; WPA2-Certified and WPA-Certified.

AES-CCMP encryption (WPA2).

Support for static and dynamic IEEE 802.11 WEP keys of 40 bits and 128 bits

Authentication

802.11X (EAPFAST, PEAP-GTC, PEAP-MSCHAPv2, etc.).

MAC address and standard 802.11 authentication mechanisms

Frequency Band and Operating Channels (FCC)

2.412 to 2.462 GHz; 11 channels

Antenna Connectors (2.4GHz Radio)

RP-TNC

MAIN ENCLOSURE SPECIFICATIONS

Dimensions

18" (W) x 20" (H) x 8" (D)
(45.7cm. x 50.8cm. x 20.3cm.)

Power Requirements

70W @ 120VAC

Operating Temperature

-40°F to + 158°F (-40°C to +70°C)
(without "Wireless Network" option)

-4°F to +122°F (-20°C to +50°C)

(with "Wireless Network" option)

For additional product information call 281.419.0796, email sales@inetslp.com or fax request to 281.419.0061.



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