



e-Seal

High Security Metal Bolt Seal Lock

Our Story...



- An Indian Company of technocrats with strong foot print in India and Abroad.
- A integrated technology company with solution oriented approach, focusing on Enterprise Mobility by using Micro Chip and RFID technology based high security metal bolt container vehicle seal locks and plastic ties.
- Headquartered in New Delhi with representatives in pan India locations.
- A strong team with more than 60% Engineers focused on creating Mobility solutions.



Company Philosophy

VISION

To emerge as the trusted partner of choice in providing customers with responsive and innovative end-to-end solutions for their advanced needs of all type security and safety concerns.

MISSION

Integrate... eading edge technologies with smart solutions to deliver quality products/services from pilot to implementation.

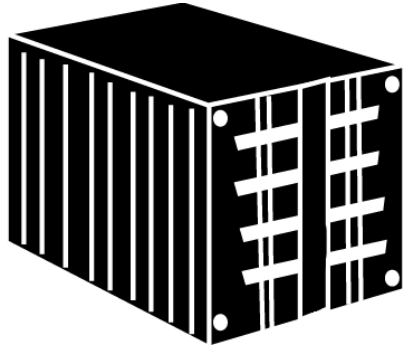
CORE VALUES

Agility - Quick to understand your needs for siwft cost-effective solutions.

Integrity - Professional approach, honesty sincerity.

Innovations - Use of imagination and next-gen technology.

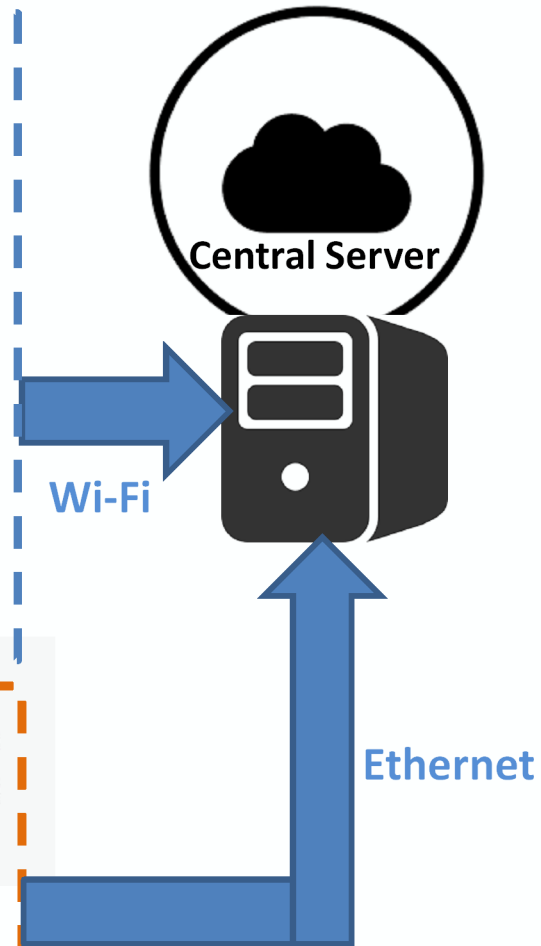
Customer Centricity - Exceeding customer expectations by providing best in class.



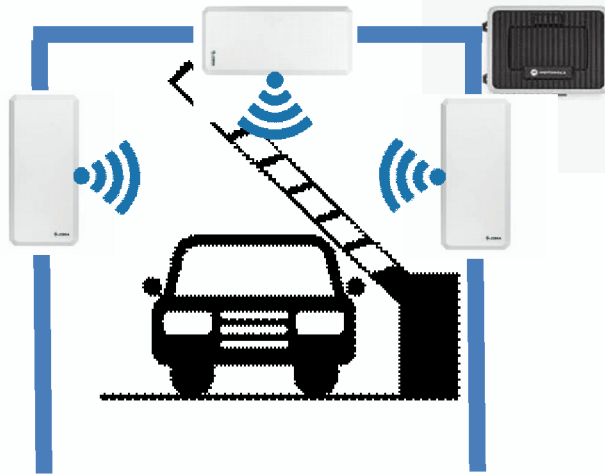
“We let you know seals are tampered or not, Authorized or Not and many more.....”

Principle of Solution

1. Using HHT RFID application, encode unique seal/container number on RFID tag.
2. Also Enter/Select following details in HHT application
 - Name of Exporter
 - IEC code
 - GSTIN number
 - Description of goods
 - Tax invoice number
 - Authorized signatory name
 - Shipping bill number
3. Upload data on central server over Wi-Fi.



4. RFID fixed readers/antennas installed at gate will read and verify RFID seal tag and decide to open/not open the boom barrier



Major Components



- For seal tamper verification, Authorisation

RFID Tags



- To encode seal/container number on RFID tag of seal and update data on server over Wi-Fi

RFID Handheld Reader



- To detect tags on seal and verify by transmit information to central system

Fixed RFID readers/Antennas



- To collect, integrate & manage information
- Administration/MIS
- Reports

Application and Services



- To upload data on central server from Handheld reader

Access Point



- To control in/out of container
- Only authorised container can enter/exit the factory

Boom Barrier



FIXED READERS

FX9500



TOP FEATURES

- PXA270@624 MHz processor, 128Mb/128Mb memory
- Rugged design
- Application flexibility
- Small footprint

BENEFITS

- Accommodates growing needs
- Withstands toughest environments
- Lowers deployment costs
- Simplifies, reduces management costs

TARGET MARKETS

- Manufacturing
- Warehouse
- Supply chain
- Energy & Utilities



FX9500



- **INCREASED SENSITIVITY:**

- **GREATER ACCURACY** for challenging materials like metals and liquids
- **LONGER READ RANGES** for large DC's and yard management applications
- **HIGHER THROUGHPUT** rates for reading more, and densely packed goods

- **NEATER, MORE MANAGEABLE FOOTPRINT**

- All cabling and input/output ports are on one side for a smaller installation footprint and better manageability



MONOSTATIC & BISTATIC OPERATION

- Uses traditional monostatic mode for high performance or bistatic operation for even greater performance

4 OR 8 PORT CONFIGURATIONS

- 8 port configurations allow more antennas per reader for a lower cost per read point and TCO

- **Bistatic** - Separate antenna cable is used for transmitting and receiving
- **Monostatic** - Single antenna cable is used for transmitting and receiving



SPECIFICATIONS

NEXT GENERATION SOFTWARE PLATFORM

- API Compatibility across MC and FX platforms
- Linux-based (OS not accessible to end-users)
- IPv4 and IPv6 support

HIGH PERFORMANCE PROCESSING

- 128/128 MB onboard memory, 624 MHz processor for sophisticated embedded apps and data
- Faster tag singulation for more efficient protocol processing for higher throughput rates

INDUSTRIAL OPERATION

- -20 to 55 C Operating Temperature Range
- IP53 sealing for dust and moisture exposure - Designed for industrial environments



Support for Future Applications

- Locationing
- Directionality
- Class III Tag Support
- Battery Assist Passive Tags
- USB Devices

Antenna

AN440



TOP FEATURES

- Dual-element, high-performance antenna
- Rugged construction
- Low-profile design

BENEFITS

- Ideal for bi-static operation
- Offers option of two separate mono-static antennae
- Suited for industrial applications
- Aesthetically pleasing for customer-facing installations

TARGET MARKETS

- Retail – store front/offices
- Healthcare
- Commercial services
- Government
- Warehousing & Distribution
- Supply Chain
- Manufacturing
- Energy

AN440 RFID Antenna



AN440

PHYSICAL	
Dimensions without mounting screws:	22.6 in. L x 10.2 in. W x 1.32 in. D
Connector	Type "N" female (2 qty)
Connector Position	Rear
Mounting bracket	Integrated mounting holes
Weight	3.2 Kg
OPERATIONAL	
Gain	6.0 dBiL
Polarization	1 x LHCP / 1 x RHCP
ENVIRONMENTAL	
Oper. Temps	-30°C to +70°C
Environmental Sealing	IP-67
Storage Temperature	-40°C to +85°C





Why Zebra for RFID?

Experience

- Long history in RFID: since 2001
- ISO 2000certified/ mature operations
- Highest skilled applications engineers, engineering design, testing & support
- Global industry experience

Innovation

- Over 75 years of technology innovation
- Broad RF leadership
- Many firsts in RFID: Portal, Mobile, Handheld, Multi-protocol, Customers Installations
- Over 300 RFID Patents

Portfolio

- Most complete suite of RFID products in the industry
- Wireless, Mobile, Scanning & RFID
- Broad Ecosystem of Partners
 - Tags, software providers, integrators, etc.

Global Capabilities Beyond the Competition

Worldwide Product Support and Services



creating A global leader in the connected enterprise



Motorola Solutions'
Enterprise Business

Industry leader
in enterprise
printing,
barcode
creation and
asset tracking
solutions.

*The combined businesses
will offer integrated
visibility, connectivity and
mobile solutions for key
verticals including retail,
healthcare, manufacturing
and transportation*

Industry leader
in physical data
capture
solutions and
services,
including
scanning and
mobile
computing.



A leading innovator



**CLOUD-BASED DEVICE
MANAGEMENT**



**CARD
PRINTING**



**BARCODE
PRINTING**



**DATA
CAPTURE**



**WIRELESS
LAN**



RFID



**MOBILE
COMPUTING**



**LOCATION AND
MOTION SENSING**



Thanks

Contact:

I. P. Singh
(Director)

For Tetra Tekseal Pvt. Ltd.
10-B DISIDC INDUSTRIAL COMPLEX, (LAL BUILDING)
JWALAPURI NO. 4
NEW DELHI - 110 087
PH: 011-25287878
EMAIL: INFO@TETRATEKSEAL.COM
WWW.TETRATEKSEAL.COM, WWW.TETRATEKSEAL.IN