











GLOBAL IT FRONTIER

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Company Established Made Gate Operation & IT Maintenance/Repair Outsourcing Contract with PECT Built Total Marine Information System for Dain Ferry Co., Ltd 2000 Built Container R&C System for ISOTANK Service Depot Do., Ltd. Built Container Damage Check System for PECT Built Pier Control Management System for Pusan Regional MAPO¹⁾ Made strategic cooperation with Samsung SDS for building Mlogis (Mobile Logistics) Supplied Mlogis to Korea Express, Samsung Logitech, Dongbang, etc. 2002 Built Unmanned Fueling System for PECT Built Gate Barcode System for MLTM²⁾ (Pusan, Incheon, Pohang) Built CADIS³⁾ for Container Terminal in Kobe Port, Japan Built Gate Barcode System for MLTM (Jeju) Built Pusan Port Integrated Briefing Room for Pusan Regional MAPO Built RMGC Optical Cable / Wireless Network for PECT Selected by MLTM for the R&D Company of Korea Long Term S&T Development Project Built Automated Transfer Crane Interface System for PECT Built IGS for Container Terminal in Kitakyushu Port, Japan Built IGS for Container Terminal in Kobe Port, Japan Built IGS for PECT Built RFID based EG Pass System & EG Pass Card Issuing System for PECT Awarded for Asia 100 Company by RED Herring Built Port Access Security System for Pyeong-Taek MAPO Building IGS for Gwang-Yang Port Phase 3-1 Container Terminal Building Additional Port Access Security System for Pyeong-Taek MAPO Preparing for additional order of IGS for PECT Build Port Access Security System for Yeosu MAPO Awarded for KOREA R&D excellence result 100 **Built Automated Transfer Crane Interface System for KBCT** Selected by MLTM for the R&D Company of Korea Long Term Automated Port Development Project

The Leading IT Solution Partner in 21C Logistics IT field that is globally recognized as one of Asia's top 100 companies

GPANS is continuing researches on its expert and developing new technologies to provide better and advanced IT solutions to its major customers, such as Terminal Operator, Carrier, Trucking Company, Shipper, and etc.

First, automation business sector of GPANS leads innovation in logistics field. GPANS is concentrating on technical advancement that related to automation such as Korea's first 2D/3D container image processing system for non-stop automated gate, RFID based automated access control system for port access security, and enhanced wire/wireless network technique, which is applicable to logistics field.

Second, port operation business sector of GPANS leads positive change of container port operation. GPANS has achieved improvement of port operation by cost reduction and operation efficiency through developing non-stop automated gate system, which is a part of Korea's long term plan for S & T development project. In addition, GPANS is growing as an expert of technical guidance and maintenance through operating a part of container terminal.

Third, R&D business sector of GPANS plays a pioneering role in logistics IT field with its continuous researches of new technologies. GPANS operates R&D Center in both headquarter and branch office to research and develop latest technologies such as image processing, character recognition, wire / wireless network, sensor network, embedded system design, and application program development that are applicable to logistics field.

As a Leading IT solution partner, all employees of GPANS will do our best to provide customer's needs and services.

- O 04-05 INTELLIGENT GATE SOLUTION
- O 06-07 YARD OPERATING SOLUTION
- O 08-09 WIRELESS BROADBAND SOLUTION
- o 10-11 ACCESS SECURITY SOLUTION



GPANS offers gate solution with recognition & management of container info, such as container number, size & type, damage, and etc. It will provide reduced time and cost for gate operation and improved operation efficiency.

Features \(\text{\text{\$\sigma}} \)









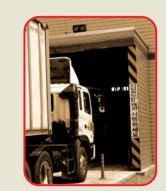






Benefits \(\text{\text{\text{\text{\text{\text{\text{Benefits}}}}} }

- One stop process for container info recognition (container number, damage, weight, type, size, etc.)
- Reducing gate process time by automated container info recognition
- Improving gate productivity and efficiency
- Having objective damage information(type, size, location)
- Reducing cost for damage claims
- Enables container terminals to offer updated services to customers
- Sending PDF Type EIR(Equipment Interchange Receipt) to customers



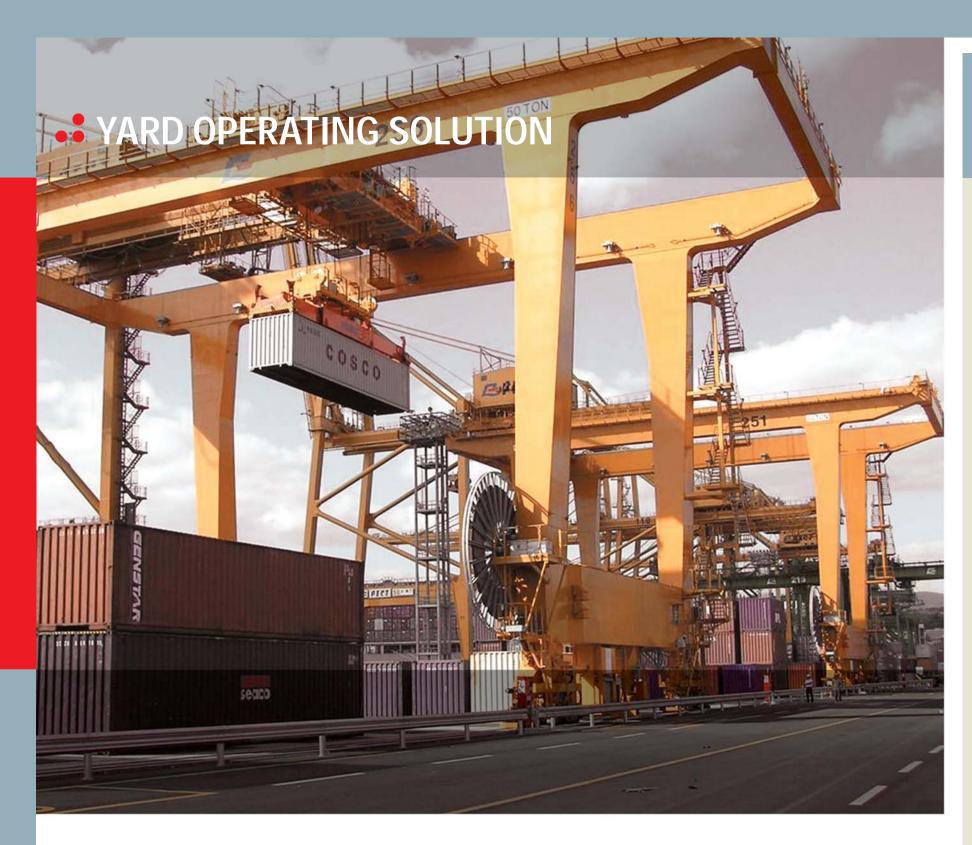




Pass the Gate

IGS User Interface

PDF Type EIR



GPANS offers yard solution that provides yard crane automation, and interface between RMGC and Trailer or Yard Tractor for improving yard productivity and reduce operating costs.

Features \(\text{\text{\$\sigma}} \)















AST (ALS + SPSS + TLPS)

ALS - Automatic Landing System SPSS - Stacking Profile Scanning System

TLPS - Truck Lifting Protection System

CPS (Chassis Positioning System)

Sensing of container and chassis Position by 3D Scanner

CNRS (Container Number Recognize System)

Offers container number recognition in yard crane

TPDU (Trailer Position Detect Unit)

Offers interface between trailer and manned / un-manned RMGC Certain interval for work order interface(Barcode/RFID) with Trailer

VMT (Vehicle Mounted Tablet)

Offers interface between TOS and Y/T or other yard vehicles
Strong to vibration, Small, Manual brightness and change for monitor angle

RTLS (Real Time Locating System)

Offers RF/IR/DGPS based yard vehicles position tracking solution

ANTI SWAY

Benefits \(\text{\text{\text{\text{\text{\text{\text{Benefits}}}}} \)

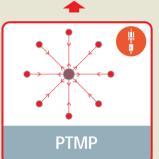
- Yard crane un-manned automation
- Reduce yard operating cost (crane, vehicle, labor, etc...)
- Improving yard operation efficiency by real time interface
- Increasing yard productivity by real time work process
- Reducing industrial disaster by safer yard operation
- Enables yard vehicle operation performance management

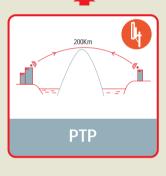


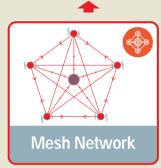
GPANS offers wireless broadband solution that provides cost-effective performance, scalability & survivability with seamless support for ad-hoc and infrastructure-based operation.

Features \(\text{\text{\$\sigma}} \)









PTMP (Point To Multi Point)

- Managing many SMs (up to 200) with one AP / point to multi point network (up to 4km)
- Outstanding security / Over the Air DES (Data Encryption Standard) + AES (Advanced Encryption Standard): Optional
- Easy installability and mobility / small communication modules

PTP (Point To Point)

- High capacity data transmission at endpoints where the wired section cannot be extended (A maximum data transmission capacity of 300Mbps)
- Communications over long distances or in environments with obstacles

(A maximum length of 200km)

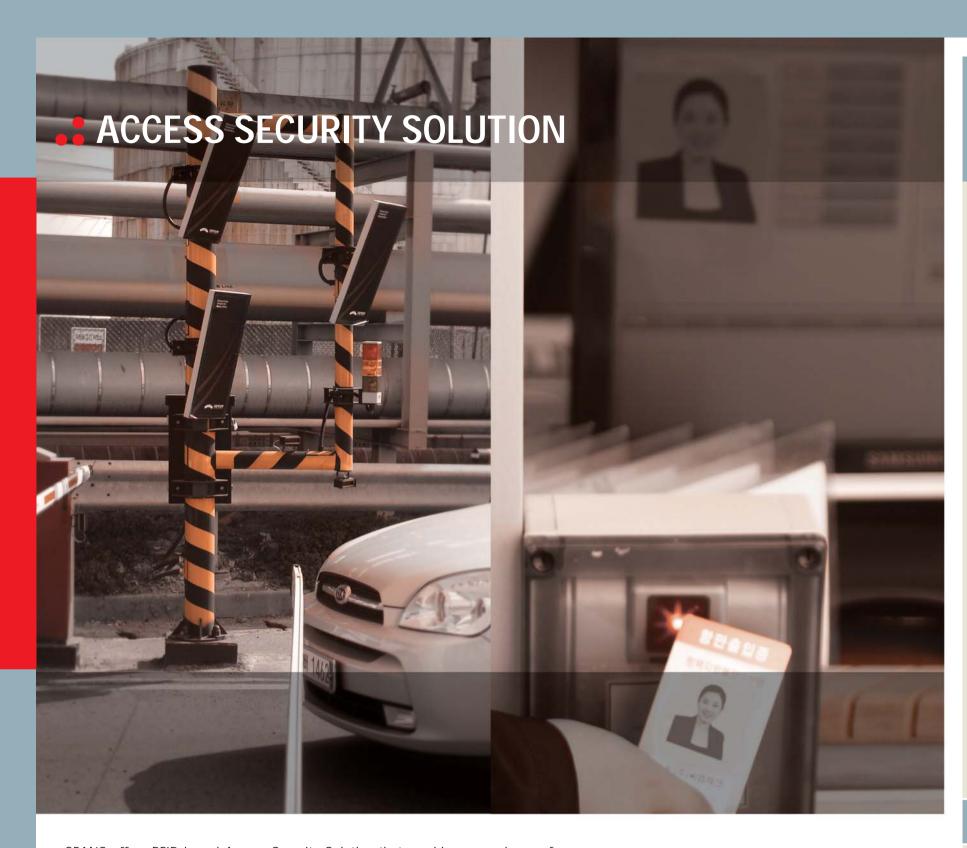
- Automatic frequency selection to maintain the highest data transmission rate (Intelligent dynamic frequency selection (spectrum management))

Mesh Network

- Providing stable network support without a pause to high-speed moving equipment
- Self-forming and self-repairing network
- Location tracking without GPS No need for additional infrastructure

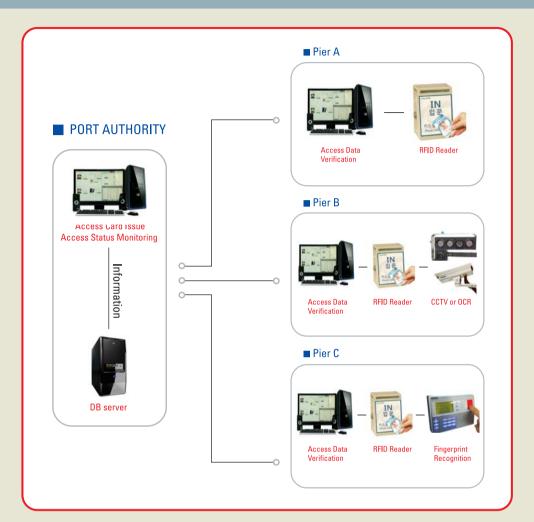
Benefits \(\text{\subset} \)

- Increasing efficiency and productivity at a port by providing a stable, pauseless network to moving equipment such as QC/TC/YT
- Reducing the cost of installing, establishing and moving the network by using super light, micro-sized modules
- Improving port efficiency by increasing network capacity with verified network coverage and multi-hop technology
- Raising customers' productivity through minimizing areas where a wired network is hard to be installed (shadow areas)
- Providing long-distance broadband communications for areas that cannot be connected through a wired network



GPANS offers RFID based Access Security Solution that provides convenience of port access to customers through simplified access process and enables computerization of port access security

Features \(\text{\text{\$\sigma}} \)



- On-Line access control of entire port by applying ISPS status (All/Regional Control)
- Secure access control against unauthorized access
- Real time monitoring for access status of personnel or vehicles
- Recording in and out time of personnel and vehicles access
- Additional security device: recognition device (license plate, fingerprint), lifting gate / crossing gate

Benefits \(\text{\subset} \)

- Enables secure access control of entire port by Port Authority
- Immediate response to a state of national emergency or terrorist attack
- Clear operation of port access security
- Easy to apply access control to new port facility
- P.R. effect to domestic and international customers as an secure and safe port





