



ENTERPRISE

ACCESS CONTROL SYSTEM

Sales Guide



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1. About Enterprise System

- 1) System Introduction
- 2) System Features
- 3) System Configuration

1. About Enterprise System

1) System Introduction

Total Security System



• About STARWATCH ENTERPRISE

- Professional access control management S/W suitable for sites and areas where high level of security and efficient management is required.
- The management S/W Offers multi-site management via LAN/WAN communication and provides stable performance with dual system processing.

• System Purpose

Total Security Management for Large Size Business

- Access Control, Video Surveillance, Elevator Control, Visitor Management, Tour Guard
- Integrations with Alarm, Fire Alarm, BAS and BMS

• Applications

- Airports, Intelligent Buildings, Laboratories and Other Special Facilities

1. About Enterprise System

2) System Features

“Management System for Large Size Business”

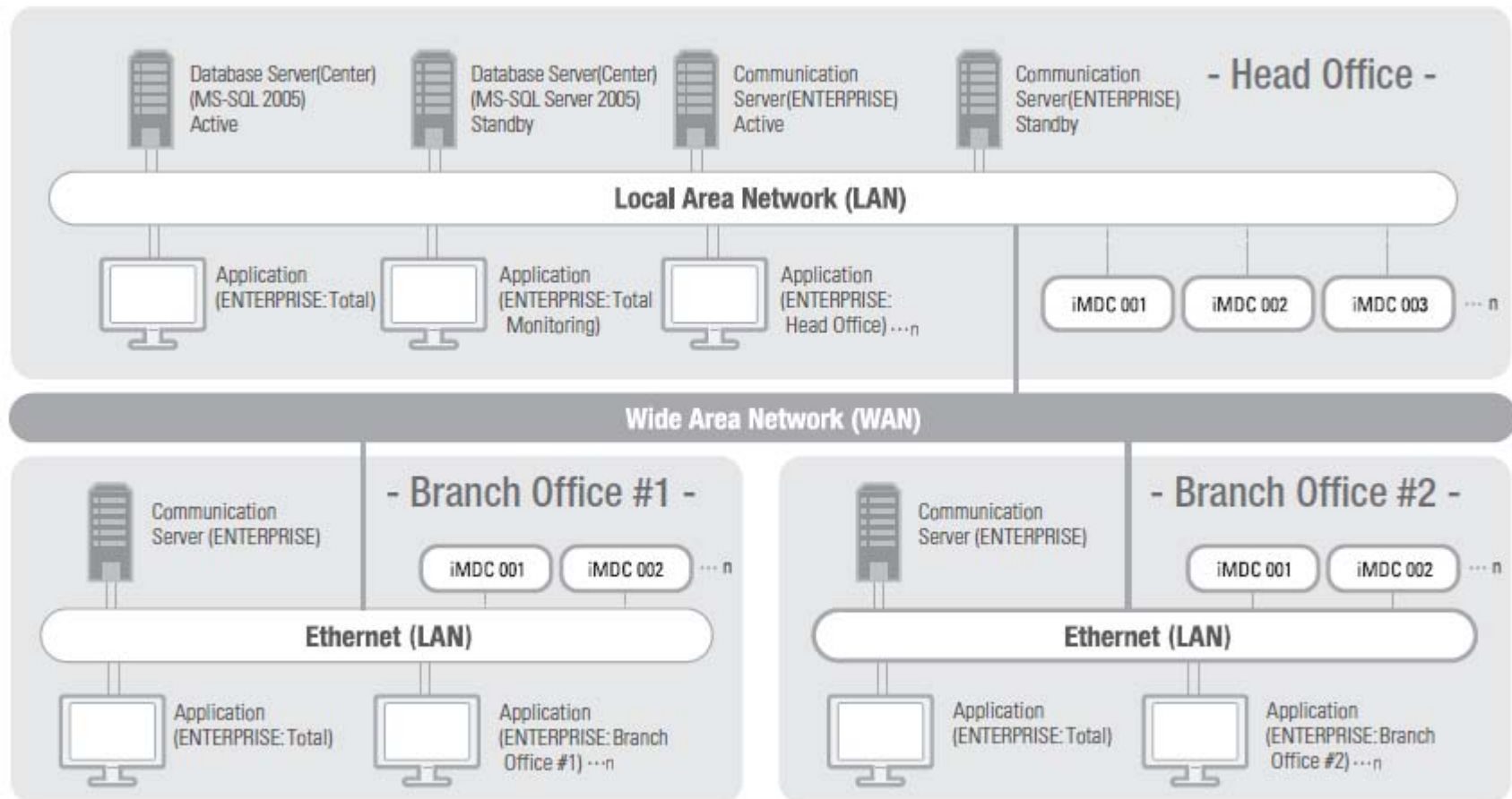


- Integrated Multi-Site Management via LAN/WAN Communication
- Supports Fault-Tolerant System for Stable Performance during the Emergency Situations
- Dual System Processing (Database / Communication / Application) Guarantees High Performance and System Stability
- Integrated Monitoring (By User, Event, Alarm and Etc.)
- Comprehensive Log Management for Enhanced Administrative Protection
- Automatic Setting Synchronization between the device & S/W
- Group Management by Department, Company and Region
- Various Anti-Passback Mode (Local, Zone, Global, Timed, Soft, Etc.)
- Initial Settings & Installations Made Easy with Setup Wizard
- Integrations with CCTV, Alarm, Fire Alarm, BAS and BMS

1. About Enterprise System

3) System Configuration

Software Configuration



Total System Configuration

The diagram illustrates the Local Area Network (LAN) architecture. It shows a central 'LOCAL AREA NETWORK (LAN)' backbone. Connected to this backbone are several systems and devices:

- External Systems:**
 - PGS2000B (Smart Card Biometric Encoder):** Represented by a smart card and a biometric encoder device.
 - Fingerprint Enrollment Point:** Represented by a laptop with a fingerprint scanner.
 - Card/Biometric Management System:** A central system for managing access credentials.
 - STARWATCH Series (Card/Biometric Enterprise Administration):** Represented by a laptop.
 - Flash Tolerant Enterprise DB Server (SQL, Active):** Represented by a server rack.
 - Flash Tolerant Enterprise DB Server (SQL, Standby):** Represented by a server rack.
 - Data Exchange (IMPORT/EXPORT):** A system for data transfer, shown in a red-bordered box.
 - Human Resources Databases:** A database system, also shown in a red-bordered box.
 - BMS (Building Management System):** Represented by a server rack.
- Internal Network:**
 - LOCAL AREA NETWORK (LAN):** The central backbone connecting all systems.

Arrows indicate the flow of data and communication between these components and the central LAN.



2. Sales Points

- 1) Overview
- 2) Sales Points
 - ① High Stability
 - ② Increased Security
 - ③ Convenience in Management
 - ④ Convenience in Setting
 - ⑤ Integrations with Other Security Systems

2. Sales Points

1) Overview

① High Stability

- Dual System Processing
- Fault-Tolerant (Redundant) System

③ Convenience in Management

- Integrated Monitoring
- Graphic Map Feature
- Full-Duplex Synchronization
- Event Priority Setting
- Data Grouping Management
- Setting by Users / Devices
- User-Defined Reports
- Unicode Based Multi-Language
- Access Status Monitoring



④ Convenience in Setting

- Convenient User Interface
- Setup Wizard Feature
- Free Software for Controller Operation Status Check and Configuration
- CD Title Provided for Easy Installation

② Increased Security

- Comprehensive Log Management
- Automatic System Log-Off
- Authority Setting per User Account
- Triple DES Encrypted Data
- Log-In via Fingerprint Recognition
- Enhanced Access Control Features

⑤ Integrations with Other Security Systems

- Flexible Integrations with Other Security Systems (CCTV / Alarm / Fire Alarm / BMS)

2) Sales Points

① High Stability

Dual System Processing



- Enterprise Application, Communication Server and Database Server can be installed and operated in separate server.
: In case large number of controllers are installed on a single site, it reduces system overload and increase system performance.
- Each designated server is designed to carry on its own functions so the it guarantees more stable performance

Fault-Tolerant (Redundant) System



- In case the system failure, the dual-system processing keeps the system running with the backup (Standby) system
: Active/Standby System of Dual System Controller, Dual System Communication Server, Dual System Database
- In case of the system error, the system recovers using the backup system.

② Increased Security

Comprehensive System Log Management



- Keeps comprehensive record history of log-in/out data, system data modification, database information modification (add/edit/delete) and other activities that are available for reviewing and printing.

Automatic System Log-Off



- In case the user leave his/her desk, after certain amount of time the system locks itself and requires logging-in before using the software again.
- During the system lock status, the events selected by the user can be monitored in the background.

Authorization Settings per User Account



- High Efficiency in management as program authorization setting is configurable by user.
- Prohibits the unauthorized user from accessing into important configuration information.

2. Sales Points

Triple DES Encrypted Data Transmission



- Fingerprint Image is Encrypted with Triple DES to Prevent Leakage of Personal Information

System Log-In via Fingerprint Recognition



- System Log-In via Fingerprint Recognition Available if Used with HAMSTER, the Fingerprint Recognition Device

Enhanced Access Control Features



- ARM/DISARM Setting Available by Reader Group
(ARM/DISARM, Delay ARM/DISARM, Free ARM/DISARM, Group ARM/DISARM)



- Anti-Passback Management and Group Setting
(Local / Zone / Global / Soft / Timed Anti-Passback)
- Supports 2 Men-Operation and Duress Mode

③ Convenience in Management

Integrated Monitoring Feature



- The monitoring window is configurable as it can be divided into multi-screen or single screen and the system remembers the monitoring setting for future use.
- Provides visual confirmation of the event occurred location on the floor plan.
- The floor plan image setting allows the user to view the status of the door and input device.
- Event list and user information are displayed on single screen via graphic map.
 - : IN/OUT setting available within the graphic map
 - : Icons for input devices are configurable within the graphic map, which allows the administrator to easily check the status of the each floor
- Using the Event Category Check-Box, it is to add and erase the events, allowing the user to monitor the events of his/her choice.

Full-Duplex Synchronization



- In case the configurations of the device and the management software are different, the configuration data can be synchronized using the management program.
(Device -> DB Synchronization, DB -> Device Synchronization)

2. Sales Points

Event Priority Setting



- In case the two events occurring at the same time, the event that has been configured as priority will appear first to allow the administrators to take action.

Data Grouping Management



- Using the data grouping by company, device and group, it allows the user to search the information that is needed much easier and quicker.

Effective User Management



- Issue Multiple Cards According to Users
- Provides the history of issued cards in case the user has re-issued the cards several times.
- Registration of personal information about the user.
- Allows the user to input up to 99 categories in the user defined field.

2. Sales Points

Various User Defined Report



- User Information Report, User/Visitor Alarm Status Report, Visitor Access Status Report, Authorized User per Door Report, Authorized Visitor per Door Report, User/Visitor Event Status Report and more.
- Supports user defined reports with categories and contents

Unicode Based Multi-Language Support



- Beside the pre-defined English and Korean language, the unicode based multi-language support allow converting of language into 10 different languages.
- Using the multi-language setting, the users can easily convert the language on their own.

Entry Door Status Monitoring and Control



- Allows the monitoring and control of all the entry doors using the configurable icons
 - : Controls Door Opening / Closing
 - : Entry Door Lock Control

2. Sales Points

④ Convenience in Setting

Setup Wizard Feature



- The Setup Wizard guides the user through all the installation and setting process of loop/controller and reader setting, which makes it simple and easy even for a first-time user.

User Interface with Maximized User Convenience



- Unified software interface (the latest Window Office 2007 UI applied) makes it easier to use the program and find what you are looking for.
- Comprehensive tooltips, help function and setup wizards allows the installation without manual.

Free Software for Check the Controller Operation Status and Setting (iMDC Emulator)



- After installing the controller, use the iMDC Emulator, a free software provided for checking the operation status of the controller and also use it for making configurations.

Easy and Fast Installation Using the CD Title



- By using the CD Title, which guides you through all the installations step by step, it makes initial installations and settings easy and fast.

⑤ Integrations with Other Security Systems

Flexible Integrations with Video Surveillance, Alarm, Fire Alarm, BAS, BMS and Etc.



- Increase in credibility of the access data as the access information in text is synced with the video image
- In case of fire, the system automatically opens/closes all the doors to minimize injuries or damages
- Saves energy (electricity) as the lighting/air-conditioning/heater turns on and off automatically according to the access event



3. Compatible Products

- 1) Compatible Controller – iMDC
- 2) Compatible IDTECK Reader Series

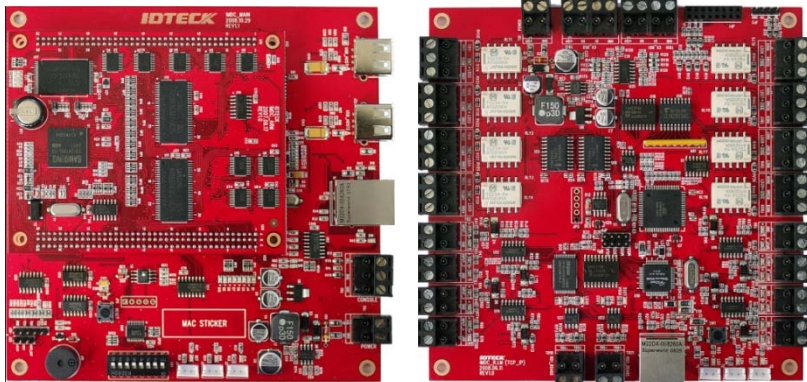
3. Compatible Products

1) Compatible Controller

Access Control System for Large Size Business

Controls Up to
32 Doors

iMDC



iMDC-MAIN

iMDC-RIM

* Stable Performance

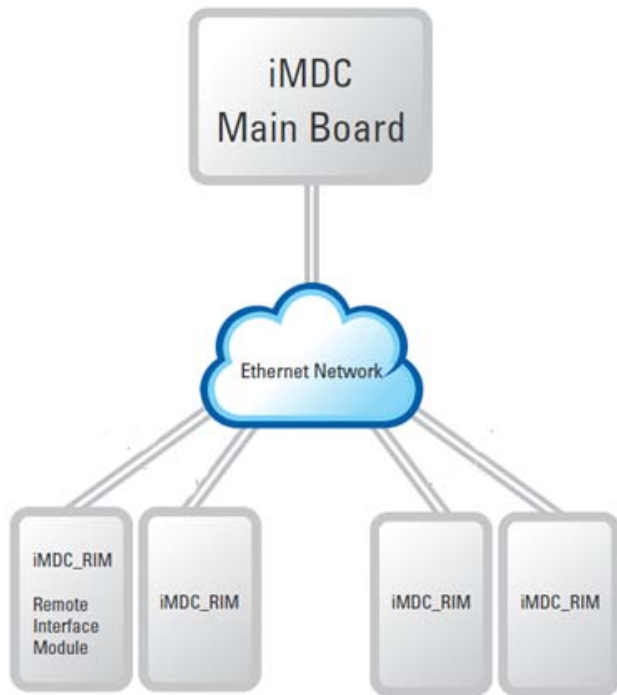
- Linux Embedded Operating System
- Fault-Tolerant System Applied for Stable Performance even during the System Failure
 - Dual System Processing (iMDC-Main)
 - In case of system failure, user defined relay output available (iMDC-RIM)
 - Auto-Reset by Self-Diagnosis (Watchdog)

* Increased Security Level

- Triple DES Encrypted Data Transmission
- Prevention of Tailgating (Anti-Passback)
 - Global/Local/Zone/Timed/Soft Anti-Passback
- Arm/Disarm Feature
 - Delay/Free/Group ARM/DISARM
- Duress Mode Feature
- 2 Men-Operation Feature

3. Compatible Products

iMDC-MAIN/RIM Configuration



iMDC_RIM (2 Reader, 8 Input, 8 Output)

* Excellent System Expansion Capability

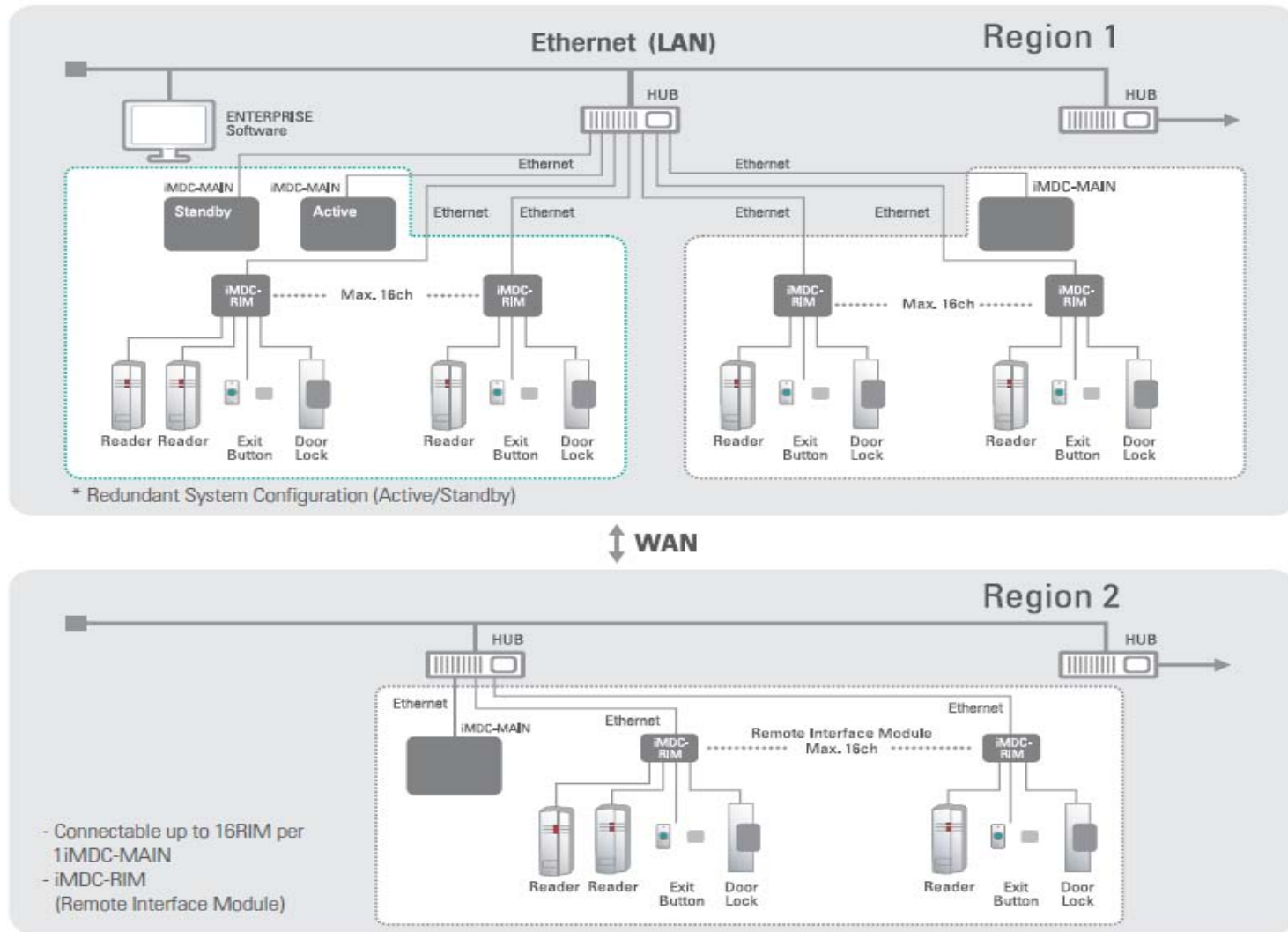
- System Expansion Using the iMDC-RIM (Remote Interface Module) (Up to 16 iMDC-RIMs Connectable to iMDC-MAIN)
- Single or Multiple iMDC Network Connection via Ethernet
- Flexible Integrations with Other Security Systems such as Video Surveillance, Fire Alarm, Alarm, BAS, BMS and Etc.

* Differentiated Features

- Configuration Setting per ID Users
: Time Schedule, Entry Allowed Readers, Door Opening Time, Etc.
- Event Priority Setting Feature
- Alarm Event for Forced Entry and when the Door Opening Time Exceeds
- Real-Time Monitoring of Access and Alarm Status via Management Software
- Guard Tour Feature

3. Compatible Products

iMDC Configuration



3. Compatible Products

2) Compatible Reader Series

Biometric Reader Series



- **FINGER006 Series** - 125KHz(PSK Modulation) Proximity Card / PIN Reader
- **FGR006 Series** - 125KHz(PSK Modulation) Proximity Fingerprint Reader
- **IP-FINGER006 Series** - 125KHz(PSK Modulation) Proximity Fingerprint Reader
- **IP-FGR006 Series** - 125KHz(PSK Modulation) Proximity Fingerprint Reader

125KHz Reader Series



- **PSK Series** (IDTECK Credential Format) – Offers High Level of Security with One of a Kind IDTECK Credential Format
- **ASK Series** (EM Format) – Offers High Compatibility with Other Systems and Affordable Cost

13.56MHz Reader Series



- **SR/SRU Series** – ISO14443 Type A/B Smart Card Compatible
- **SR-RW Series** – One Card Solution (Access Control, Debt Meal, e-Payment, Etc.)
- **SRS Series** – ID Number Controlled by IDTECK with Secure Access Key
- **SRB Series** – Bio Data Stored in the Card Memory



4. Product Specifications

- 1) Enterprise S/W System Requirement
- 2) iMDC Controller – MAIN
- 3) iMDC Controller – RIM

5. Product Specifications

1) Enterprise S/W System Requirement

	Requirements	Etc.
Operating System	General Operating System Windows XP Pro / Vista / Window 7 Server Operating System Windows 2003 SQL Server *This system does not support Windows 95, 98, ME, 2000 (Professional and Server).	All the operating systems are suggested to install the latest service pack and security patch.
CPU	Pentium 4 Core 2 Duo or Higher	
RAM	2GB or Higher	
HDD	100GB or Higher	
VGA	1024 x 768 or Higher Resolution 65,536 Color (16 bit color) or Higher	
CD-ROM	8X or Higher	
Database	Microsoft SQL Server 2005 Express Edition (Built-In) Microsoft SQL Server 2005 (Sold Separately)	All the databases are suggested to install the latest service pack and security patch.
Compatible Readers	Proximity Readers : RF Series, IP Series, SR Series Biometric Readers : FINGER006 Series, FGR006 Series, LX006 Series, MAC1000/2000 Series	

5. Product Specifications

2) iMDC Controller – MAIN

Model		iMDC – MAIN
CPU		32 Bit Microprocessor
Operating System (OS)		Embedded Linux
Memory	Program Memory	128MByte Flash Memory
	Data Memory	128M Byte SDRAM
Users / Event Buffers		200,000 / 200,000
Power / Current		DC12V / MAX 350mA
Communication		Ethernet
Ethernet Communication Speed		10/100 Mbps
LED Display		21 LED
Interface		Supports up to 16 iMDC-RIM Interface (Each iMDC-RIM Supports 2 Readers, 8 Input, 8 Output) ▪ Up to 32 Readers - 26 Bit Wiegand, 4/8bit Burst - 32 Bit Wiegand, 4/8bit Burst ▪ 128 Input (Input Type Selectable) ▪ 128 Output (Output Type Selectable)
Operating Temperature		- 0° ~ +65° C
Operating Humidity		10% ~ 90% Relative Humidity Non-Condensing
Dimension (W x H x T) / Weight		137 x 137 x 18mm / 149g
Certifications		CE, FCC, KCC, UL, RoHS

5. Product Specifications

3) iMDC Controller – RIM (Remote Interface Module)

Model		iMDC – RIM
CPU		8 Bit Microprocessor
Memory	Internal Memory	128K Byte Flash Memory
	External Memory	4K SRAM
Power / Current		DC12V / MAX 350mA
Reader Port		2 ea
Input Port		8 ea (Input Type Selectable)
Output Port		8 ea : 2 FORM-C Relay Output (COM, NO, NC) / DC+12V ~ +18V, Rating Max. 2A
Ethernet		10/100 Mbps
LED Display		25 LED
Operating Temperature		- 0° ~ +65° C
Operating Humidity		10% ~ 90% Relative Humidity Non-Condensing
Dimension (W x H x T) / Weight		137 x 137 x 18mm / 168g
Certifications		CE, FCC, KCC, UL, RoHS

Time Schedule			
TIME CODE	128	HOLIDAY CODE	128
TIME INTERVAL	128	HOLIDAY	64



5. IDTECK Company Profile

- 1) About IDTECK
- 2) IDTECK Sales Performances

6. IDTECK Company Profile



IDTECK is a foremost manufacturer in the areas of access control system and time & attendance system based on the innovative technologies of RFID, biometrics and embedded OS (Linux, WinCE) controller. With over 200 IDTECK product distributors over the world, IDTECK is devoted in designing, developing and manufacturing security products of RFID, biometrics reader, controller and management software.

Long experience in biometric access control and time & attendance field, IDTECK products assure the most reliable technology out in the security market. IDTECK offers wide range of security products, to provide the best security solution to suit your needs; **Access control, time & attendance, parking management, integrated systems (CCTV, DVR, Fire Alarm, Alarm)** and other various applications. All of IDTECK products are certified by UL, CE, FCC, MIC, and RoHS to satisfy the standards for international exports.



6. IDTECK Company Profile

2) IDTECK Sales Performances

IDTECK products are exported and installed in over 150 countries in the world.

Government / Military Facilities

Pentagon (USA), Kuwait Ministry of Justice & Ministry of Defense (KUWAIT), Internal Administration Ministry (PORTUGAL)
Thai Government Courts (THAILAND), Turkish Army (TURKEY), etc.

Banks / Schools

Global Bank (PANAMA), Turkey trust (TURKEY), DSK Bank (BULGARIA), University of Barcelona (SPAIN), Minho University (Portugal), etc.

Companies / Laboratories

National Petroleum Agency (BRAZIL), Company Petroleum Chile Copec S.A. (CHILE), Media Centre Componia (HUNGARY)
American Express (KUWAIT), Railway Station (ITALY), Carrefour (BRAZIL), etc.

Airports / Museums

Dubai Airport (UAE), Air Macau (CHINA), • Budapest National Museum (HUNGARY), Munk Museum (NORWAY), etc.