



Application Stories for M1000 SMS Direct

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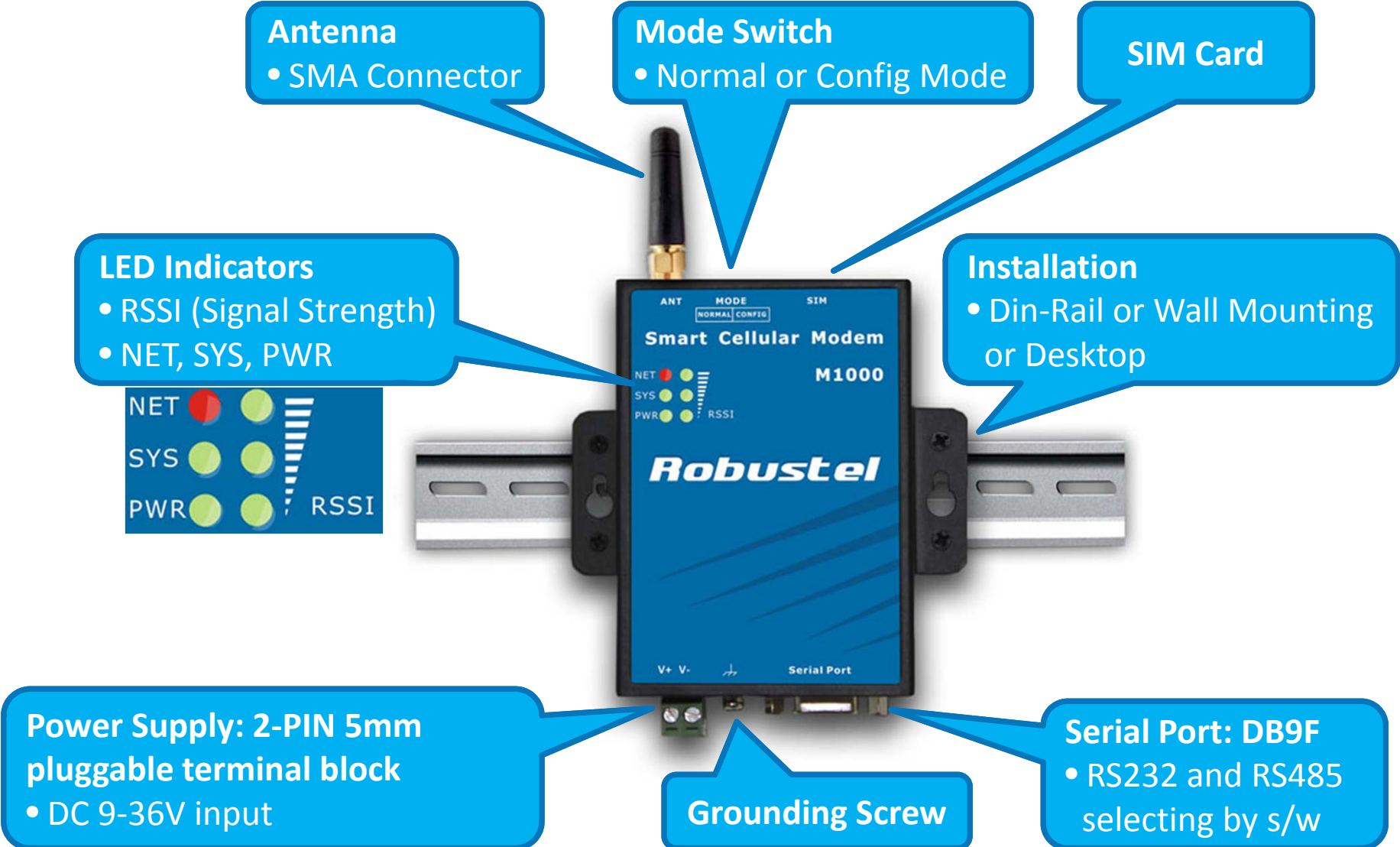
Contents

- **M1000 Overview**
- **SMS Direct Overview**
- **Applicable Model List**
- **Application Cases**

M1000 Overview: Features and Specifications

- Rugged design with highly EMC performance
- Din-Rail mounting installation
- 3 level RSSI LED indicators
- Wide range power supply range from 9 to 36VDC
- Wide range temperature range from -25 to 70oC
- Auto Reboot to keep modem 24x7 running
 - ✓ Auto reboot at preset time of a day
 - ✓ Auto reboot via telephone call
 - ✓ Auto reboot via SMS
- Read modem status via SMS
- SMS Direct function
- Firmware upgrade via serial interface

M1000 Overview: Appearance



SMS Direct Overview

Robustel's proprietary SMS Direct has the following features:

- Transparently converts serial data to short message or vice versa without using AT Commands.
- Text, binary, and Unicode formats are supported.
- Verification of Incoming Caller ID is implemented to block uncertified users.
- The configuration profile can be easily stored, and then copied to other modems.

Possible Applications:

- Update the message on a highway LED signage display panel
- Place refill orders for vending machines
- Handle maintenance for remote rental equipment
- Create SMS alarm for legacy device

SMS Direct: Configuration GUI

Com | Basic | SMS Direct | Advanced | Reboot | Networks | Init. String | Phone

*SMS Direct is only available under Config Mode
 *Set phone NO.in Phone Book->SMS IN, SMS OUT

Enable SMS-IN Enable SMS-OUT

SMS-IN Data Format

TextASCII
 From Mobile
 Unicode (UCS2)
 Binary (8 bits)

SMS-OUT Data Format

TextASCII
 To Mobile
 Unicode (UCS2)
 Binary (8 bits)

Auto Add Timestamp (dd.mm.yy hh:mm:ss) Max. SMS/Day

Receive

Send

*Note: advanced settings for SMS Direct.

Data Packing

Interval Timeout (1*100ms) (2 - 100)

Packet Length (0 - 160)

Delimiter 1 (Hex) Enable

Delimiter 2 (Hex) Enable

Delimiter Process

Auto SMS

Enable at *Set phone NO. in Phone Book->SMS Control

Content (Text Only)

SMS Direct | Advanced | Reboot | Networks | Init. String | Phone Book | Debug

Note: The Phone NO. must be written in international format, starting with "+" followed by the country code.
 e.g.: +156789, in which +1 is the USA country code, 56789 is the phone No.

Item	Phone NO.	Call Reboot	SMS Reboot	SMS In	SMS Out	SMS Control
1	+86123456789	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	+86987654321	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Applicable Model List

- M1000-SC55IA
- M1000-SC55IB
- M1000-SC52IA
- M1000-SC52IB
- M1000-SC37IA
- M1000-SC37IB
- M1000-JC65IA
- M1000-JC65IB

**Please refer to M1000 datasheet for further information.*

Application Cases



LED Signage



PLC Alarm Monitor



Vending Machine Monitor



Slot Machine Monitor



Gaming Machine Monitor



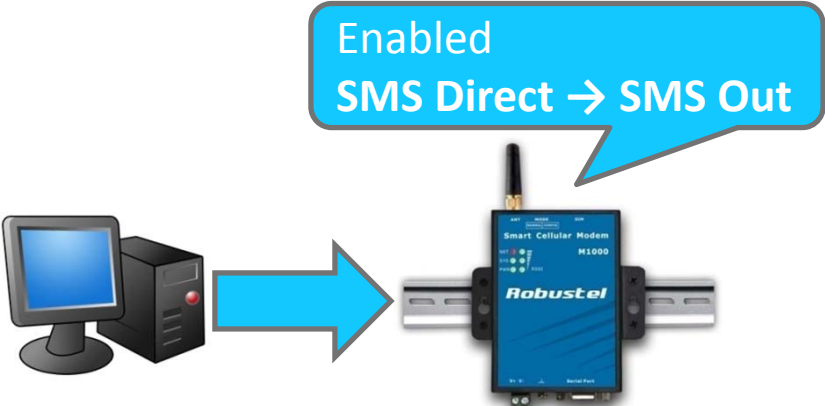
CNC Machine Monitor

LED Signage

Industries such as transportation or finance often use LED signage to present information, such as traffic congestion information or real-time stock quotes.

Cellular technology can allow such messaging and communication for previously untapped, hard-to-wire locations, such as on highways and on buildings.

The SMS Direct function allows users to remote update the information via our M1000 modem or mobile phone, after receiving the SMS from remote site then the M1000 connecting to the LED signage will automatically output the information from serial port with defined format, such as ASC II or Unicode. Verification of incoming Caller ID is implemented to block uncertified users.



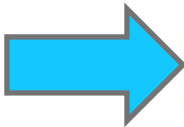
Right Lane Closed 100 m

Right Lane Closed 100 m



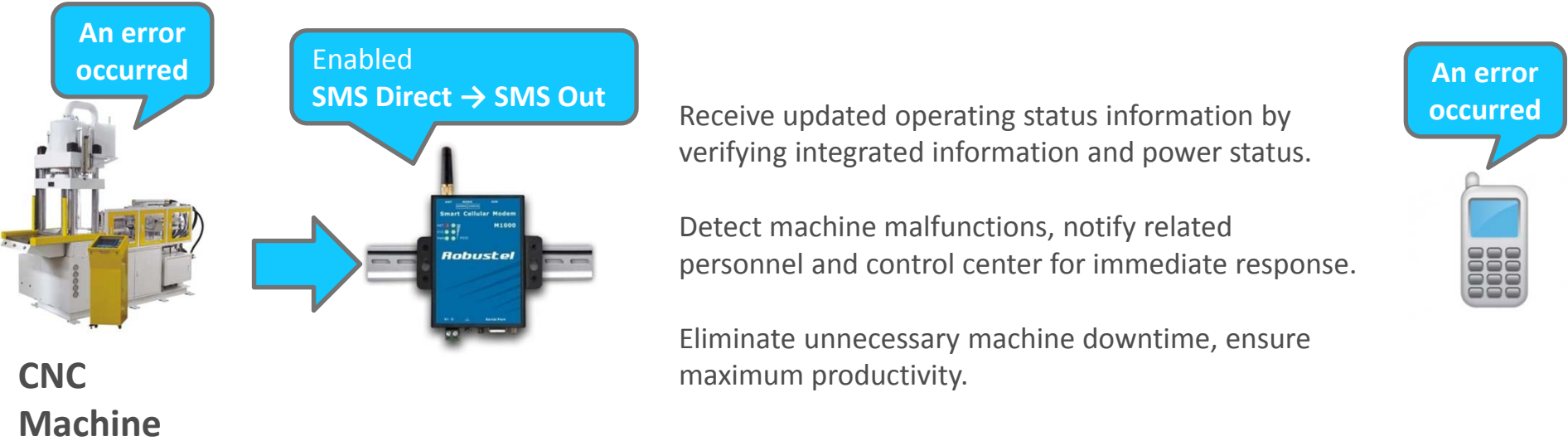
GSM

Enabled SMS Direct → SMS In



LED Signage on Highway

PLC Alarm Management

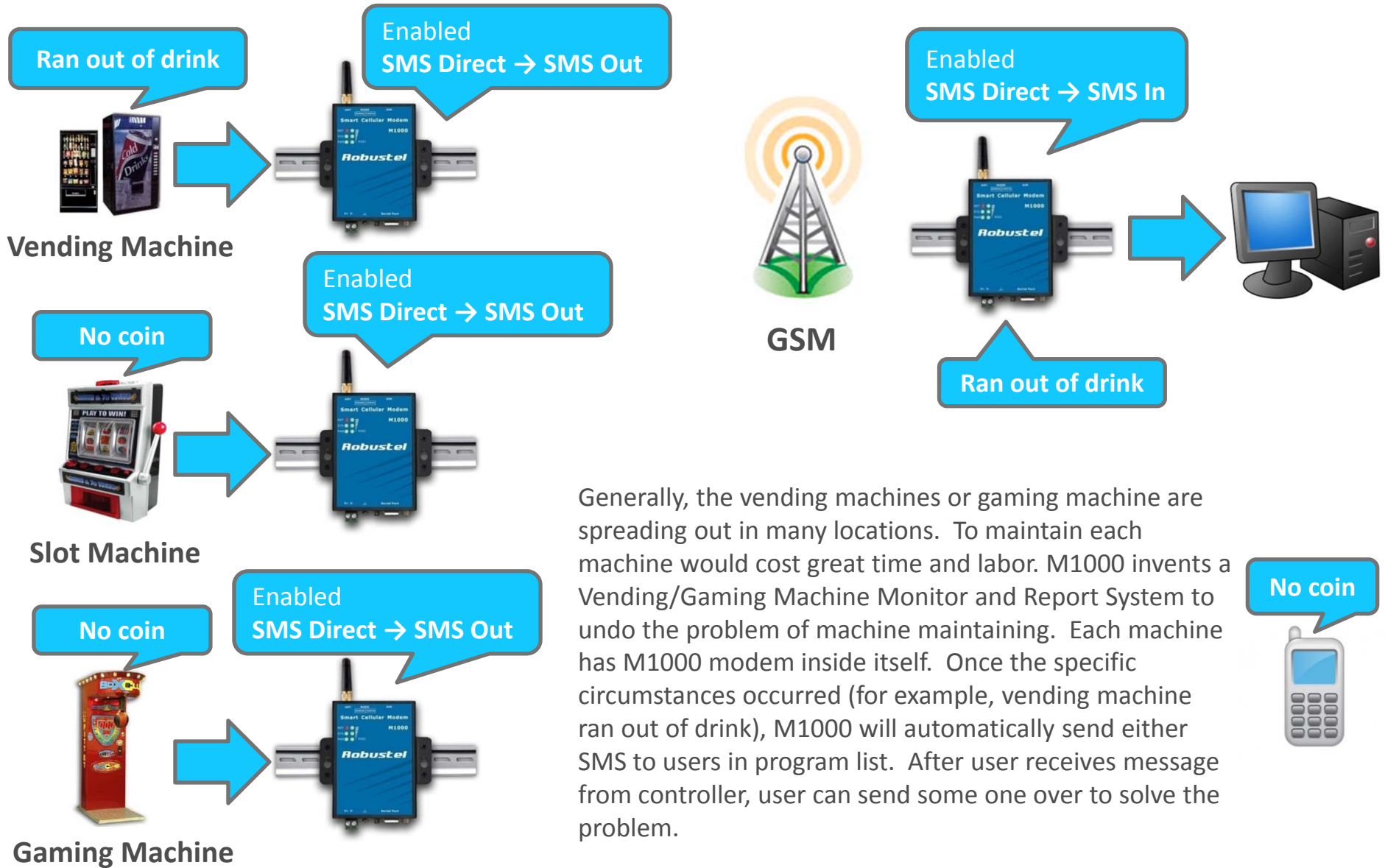


Receive updated operating status information by verifying integrated information and power status.

Detect machine malfunctions, notify related personnel and control center for immediate response.

Eliminate unnecessary machine downtime, ensure maximum productivity.

Vending Machine Management



Generally, the vending machines or gaming machine are spreading out in many locations. To maintain each machine would cost great time and labor. M1000 invents a Vending/Gaming Machine Monitor and Report System to undo the problem of machine maintaining. Each machine has M1000 modem inside itself. Once the specific circumstances occurred (for example, vending machine ran out of drink), M1000 will automatically send either SMS to users in program list. After user receives message from controller, user can send some one over to solve the problem.



Thank you!

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