

# Connecting Things to Web

M2M  
IoT  
Smart  
Ecosystems

We make anything  
WIRELESS



Customer oriented



R & D Capability



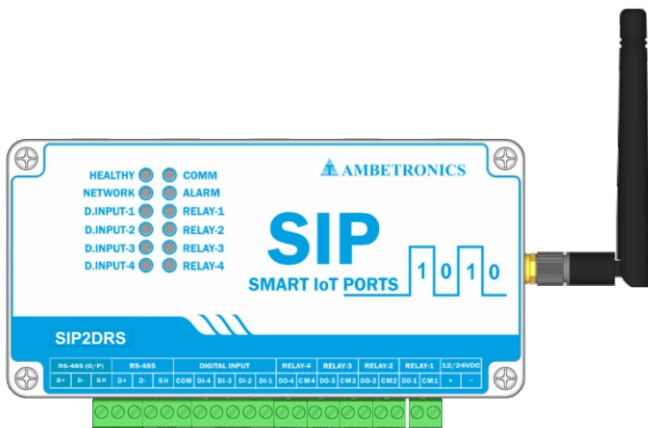
Driving innovation



Shipping globally



# 1. INTRODUCTION















## 1.2 FEATURES

- GSM / GPRS Connectivity
- 4 Digital Inputs + 44 Modbus Slaves
- 4 Digital Inputs & 4 Digital Outputs
- RS-485 MODBUS RTU Input
- RS-485 MODBUS Output (For Repeaters)
- Inbuilt Memory and RTC for failsafe logging
- Device configuration with PC Software
- Settable Data Interval 1-Minute to 60-Minute.
- 2 x Settable Local Alarms (12 x LED and Buzzer Indication)
- Alert notifications on SMS (10 No.) and Email (5 No.)
- MQTT Cloud Connectivity
- JSON Data Format
- 9V to 24V DC Power Supply

# 1.1 OVERVIEW

The SMART IoT PORTS (SIP2DRS) IS GSM based IoT Module which is designed to read the legacy RS-485 based devices (sensors / transmitters) with four digital input/output and connect with any MQTT Broker (Ambeiot, ThingsBoard.com etc.). The Ambeiot platform is highly scalable that offers unlimited data storage, graphical view, search tool, real time viewing facility, alerts and user friendly dashboards.

## 1.3 APPLICATIONS

	Sub-station Monitoring		Manufacturing Monitoring
	Cold Storage Monitoring		Automatic Meter Reading
	Electrical Distribution Automation		Water Monitoring
	E-charging Point		Solar Energy Monitoring
	Generator Monitoring		Smart Energy Monitoring
	Environment Monitoring		Self-Service Kiosk

## TECHNICAL SPECIFICATIONS FOR INDUSTRIAL INDICATORS

### DEVICE CONFIGURATION

- Nodes : 4 Digital Inputs & 44 MODBUS Slaves  
 Configuration : AEPL IoT PC Software  
 Operating Modes : Programming and Application

### CELLULAR INTERFACES

- Connectivity : GSM/GPRS Connectivity  
 Antenna : -3dBi  
 SIM Slots : 2 Nos

### COMMUNICATION PORTS

- Ports : 1 x RS485 MODBUS RTU  
 Connector : 3-Pin Terminal Block

### ALERT NOTIFICATIONS

- Buzzer : Beep Sound  
 LED's : 12 LED's (Buzzer & LED indications)  
 SMS : 10 No. of SMS Notifications for user  
 EMAIL : 5 No. of Email Notifications for user

### CLOUD CONNECTIVITY

- Protocols : MQTT  
 Transmission : Log  
 Data Interval : 60 sec to 3600 sec

### POWER SUPPLY AND CONSUMPTION

- Power Supply : 12V-2A adaptor  
 Connector : 2-Pin Terminal Block

### ENVIRONMENTAL

- Operating Temperature : 0°C to 50°C  
 Storage Temperature : 0°C to 60°C  
 Relative Humidity : 10% to 90% RH, Non- Condensing

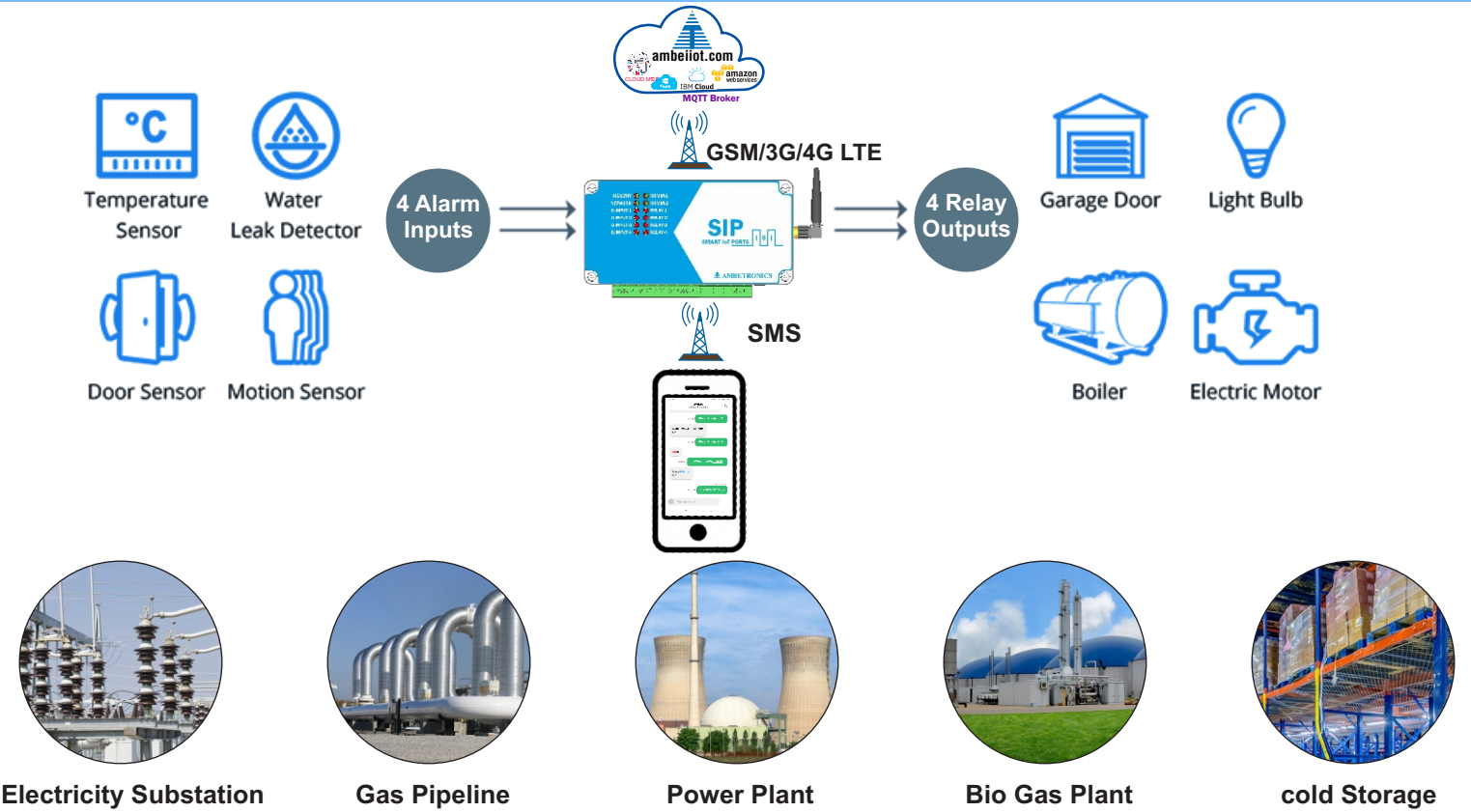
### PHYSICAL CHARACTERISTICS

- Weight : ~ 400g  
 Dimensions : 180(L) x 55(W) x 90(H) (With antenna & connectors)  
 Mounting : Wall Mounting

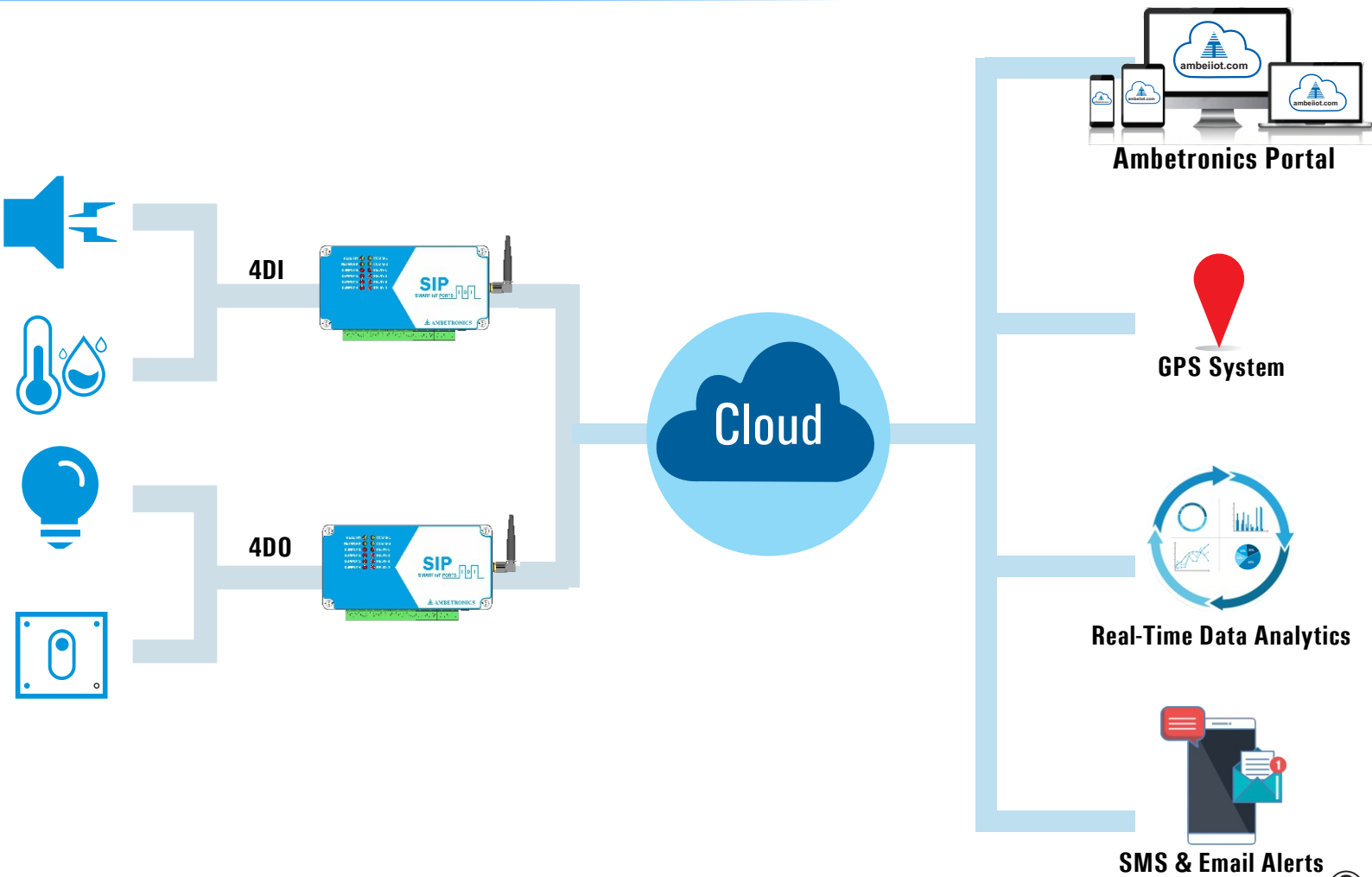
## MODULE TYPES AND FUNCTIONS :

MODEL NAME	PROTOCOL		INPUT		OUTPUT		CONFIGURATION		NOTIFICATION	
	MQTT	RS-485	GSM	Wi-Fi	RS-485	SMS	SMS	E-mail		
SIP2DRS	✓	✓	✓		✓		✓	✓		

# Product Features



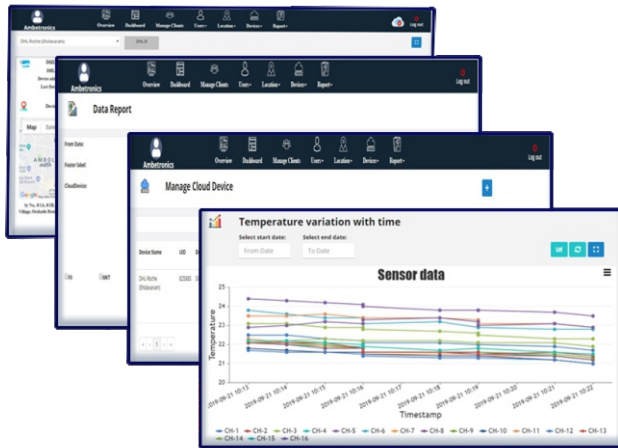
# Applications





## IIoT Cloud Platform.

- Enterprise wide integration
- Engaging data visualization
- Insightful analytics
- Powerful device management
- Secure & Reliable



## Analytics & Reporting.

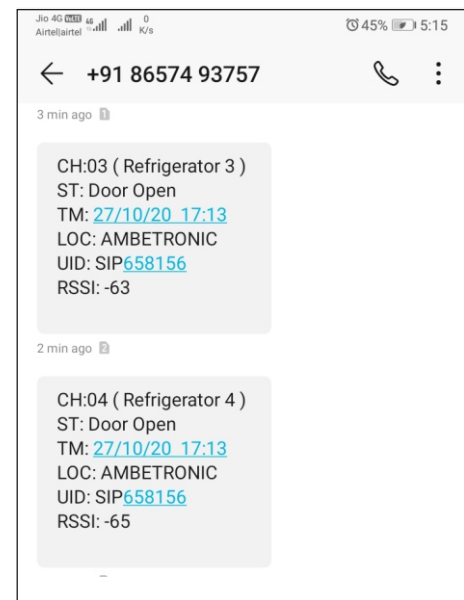
- Track opportunities & realize cost-saving
- Never miss a glitch in your metric
- Gets smarter with time
- Out-of-box, Self-service reporting

## Notifications

### SIP2DRS - E-mail Notification



### SIP2DRS - SMS Notification



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