Industry IoT Technology 4.0
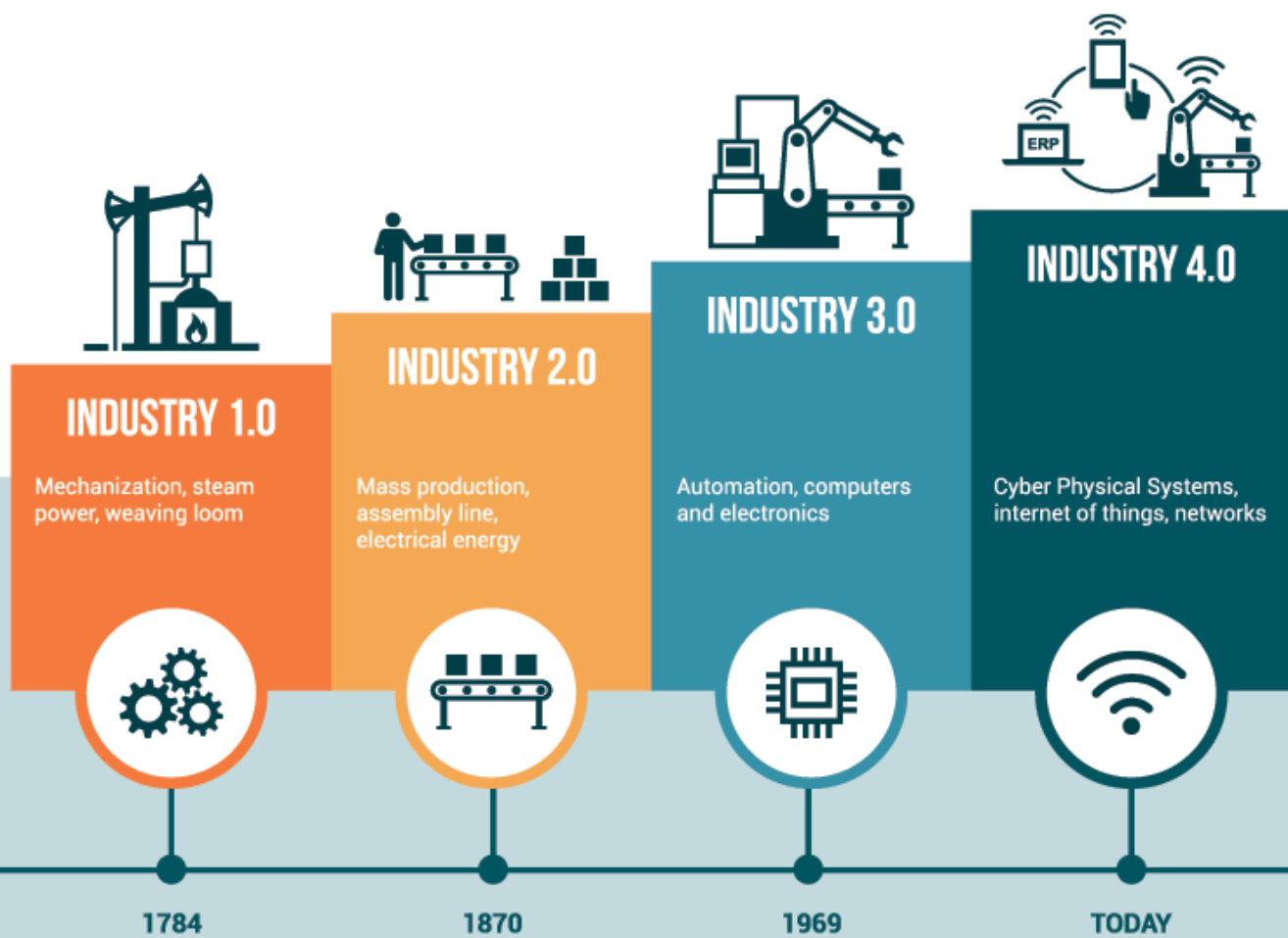
Intelligent Sensing Devices
for IoT Big Data Analytics Applications

WiFi · LoRa · Modbus · Bluetooth · 3G/GPRS

The RDL-5000 series defines a new way of transforming factories into smart/intelligent factories, aiming to better serve customers through greater flexibility of production and optimization of resources by implementing the IIoT 4.0.

Benefits :

- Improving operational efficiency.
- Improving productivity.
- Creating new business opportunities.
- Reducing downtime.
- Maximizing asset utilization.
- Tracking behavior for real-time marketing.
- Enhanced situational awareness.
- Sensor-driven decision analytics.
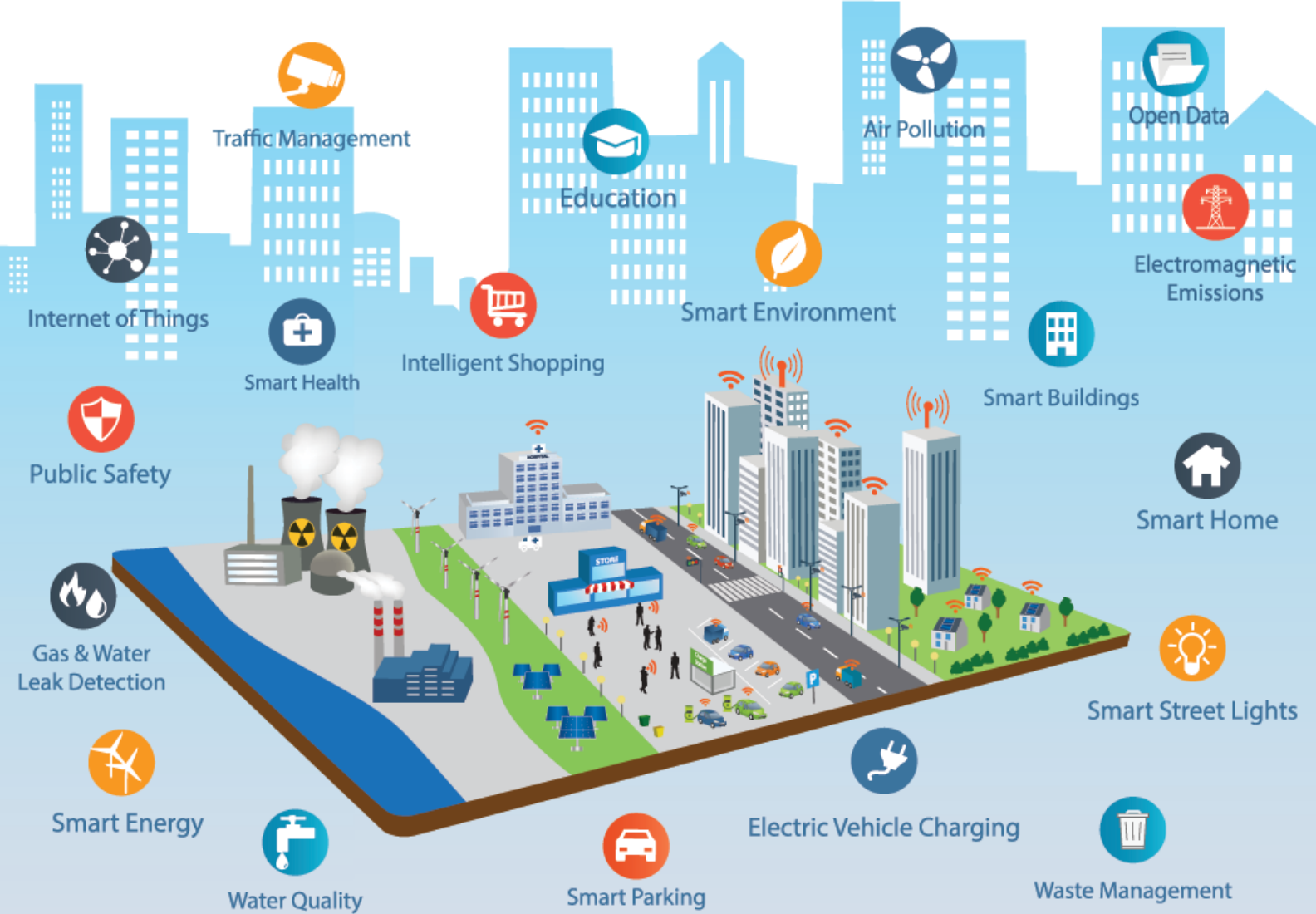- Instantaneous control and response in complex autonomous systems.

INDUSTRY 1.0
Mechanization, steam power, weaving loom

INDUSTRY 2.0
Mass production, assembly line, electrical energy

INDUSTRY 3.0
Automation, computers and electronics

INDUSTRY 4.0
Cyber Physical Systems, internet of things, networks

1784   1870   1969   TODAY

Features :

- Wireless RS485 Modbus RTU.
- MQTT and RESTful API IoT Protocol Support.
- Cloud Storage.
- Sub-GHz interface.
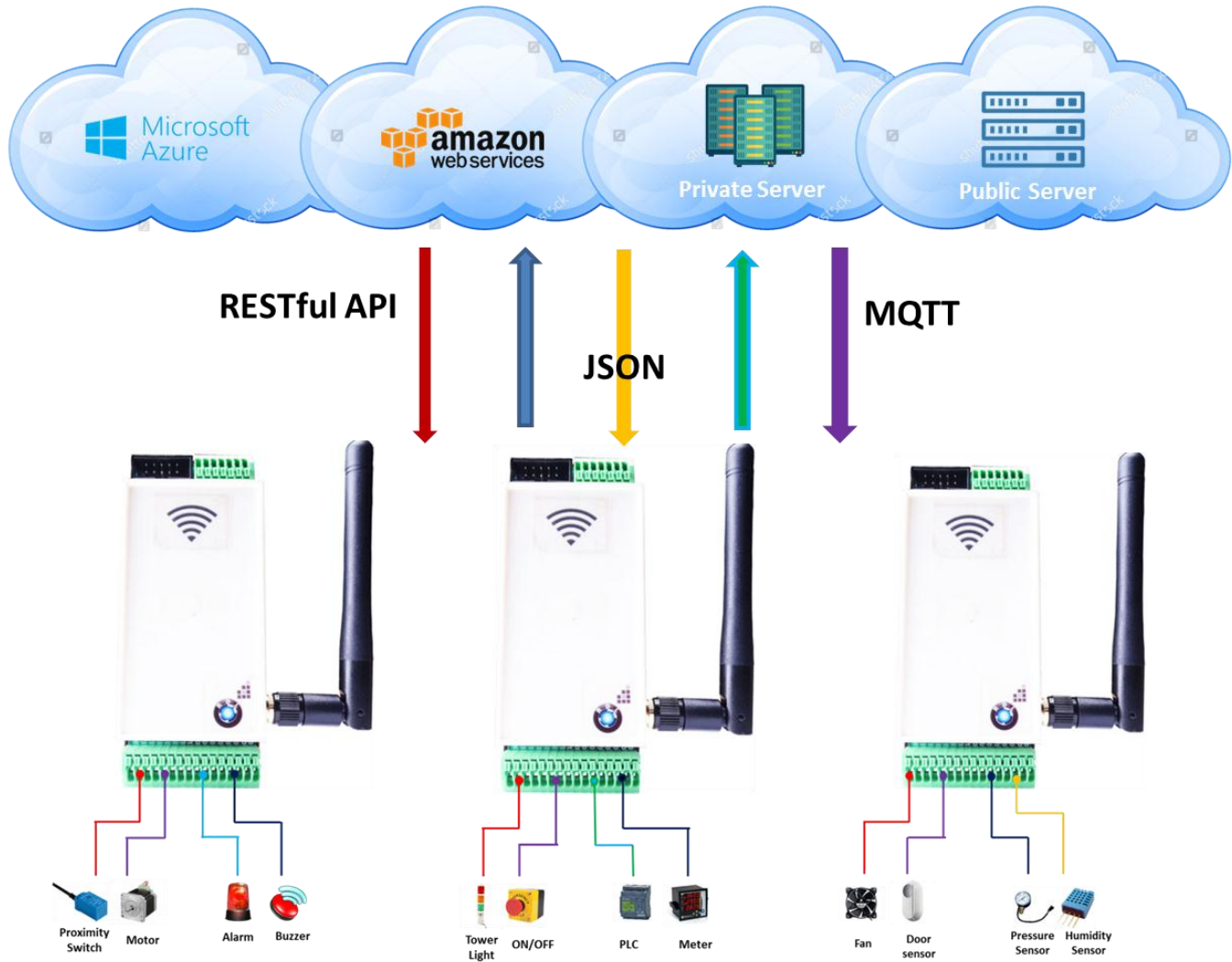- Supports for WiFi 2.4GHz.

Applications :

- Smart home.
- Wearables.
- Smart City.
- Smart grids.
- Industrial internet.
- Connected car.
- Environmental monitoring.
- Connected Health.
- Smart retail.
- Smart supply chain.
- Smart farming.

Specification:

Order Code	RDL5000
Working Voltage	DC 10-24V
Operating Current	180mA@3.5V
Power Consumption	2W @24V
Digital I/o	8 Input and 8 Output opto isolated
Serial Signal	DATA+, DATA-
Data Bits	8 bits
Stop bits	1,2
Parity	None, Odd, Even
Baud Rate (bps)	1200,2400,4800,9600,19200,38400,57600,115200
WLAN	IEEE 802.11b/g/n 2.4GHz
Communication Protocol	MODBUS/RTU,TCP/IP,UDP,HTTP
IoT Protocol	RESTful API in JSON and MQTT
Controller Frequency	16MHz
Data Rates	1 Mbps to 72 Mbps
Outdoor range	150M LOS
Watchdog Timer	1-8 sec programmable
RF Module Certification	FCC,CE
Dimension	111 x 44 x 32
Working humidity	< 95% (+ 25 °C)
Operating Temperature	20 °C - + 60 °C
Mounting	DIN rail ,wall mount

Order Information :

Model No	DI	DO	RS-485	RS-232	RF Technology
RDL5000	8	8	1		WiFi
RDL5001	8	8		1	WiFi
RDL5002	8	8	1		RF Mesh
RDL5003	8	8		1	RF Mesh
RDL5004	8	8	1		Bluetooth
RDL5005	8	8		1	Bluetooth
RDL5006	8	8	1		LoRa
RDL5007	8	8		1	LoRa
RDL5008	8	8	1		ESP8266
RDL5009	8	8		1	ESP8266

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