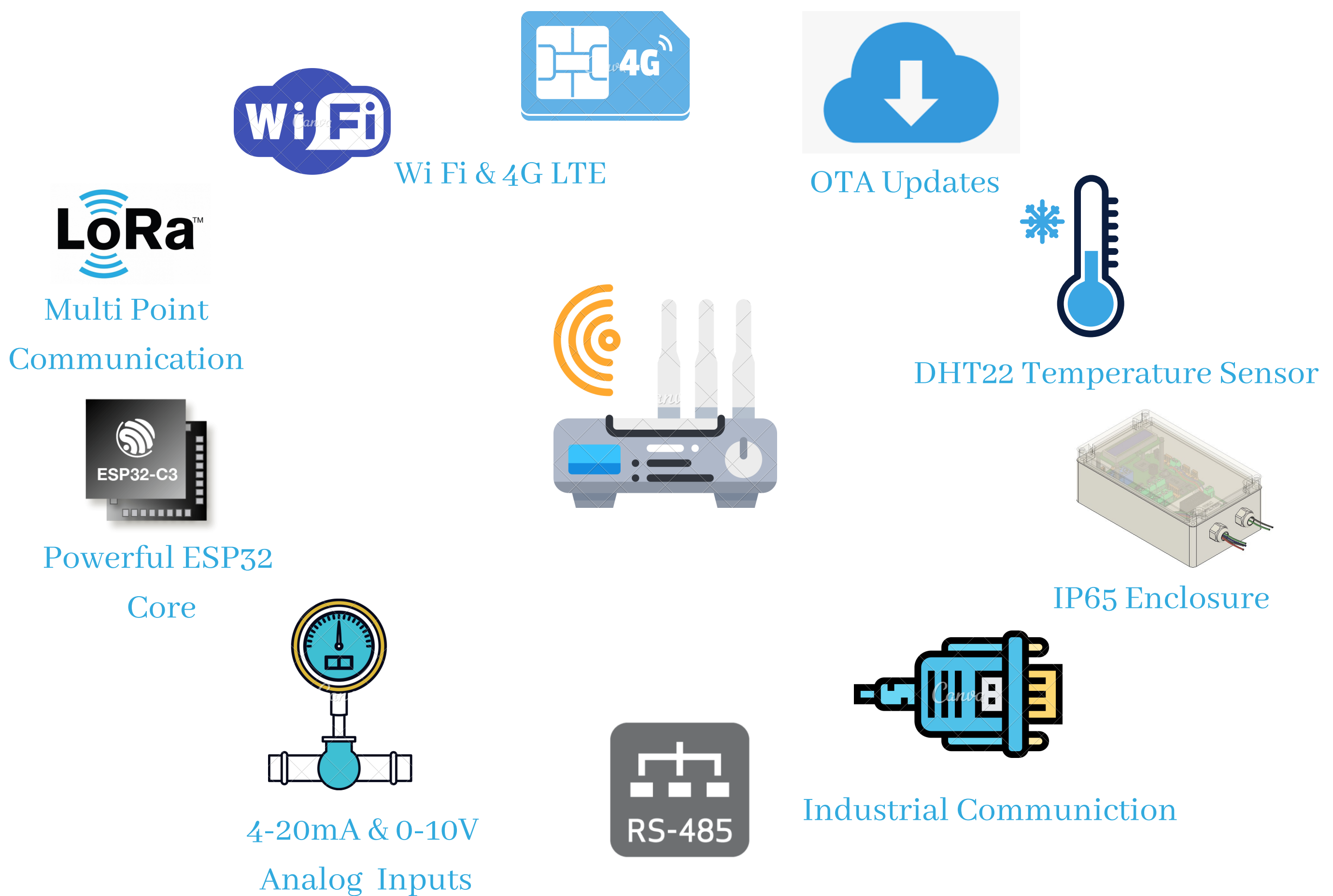


# GW 5253

## Industrial IoT Gateway

The GSM based RMU for remote monitoring work over 4G mobile networks & Wi Fi .These controllers are used, not only in places without Ethernet (LAN) connectivity but where special requirements for mandatory connectivity are over mobile networks.They can communicate to a remote server using either TCP, HTTP or MQTT protocol. It accepts input data either from RS232 or an RTU RS485 communication channel. It also accepts Analog & Digital inputs.



### Plug & Play

Easy Integration  
OTA Firmware Upgrades

### Multi Purpose

Analog & Digital Sensors  
Multiple RS 485 Commands

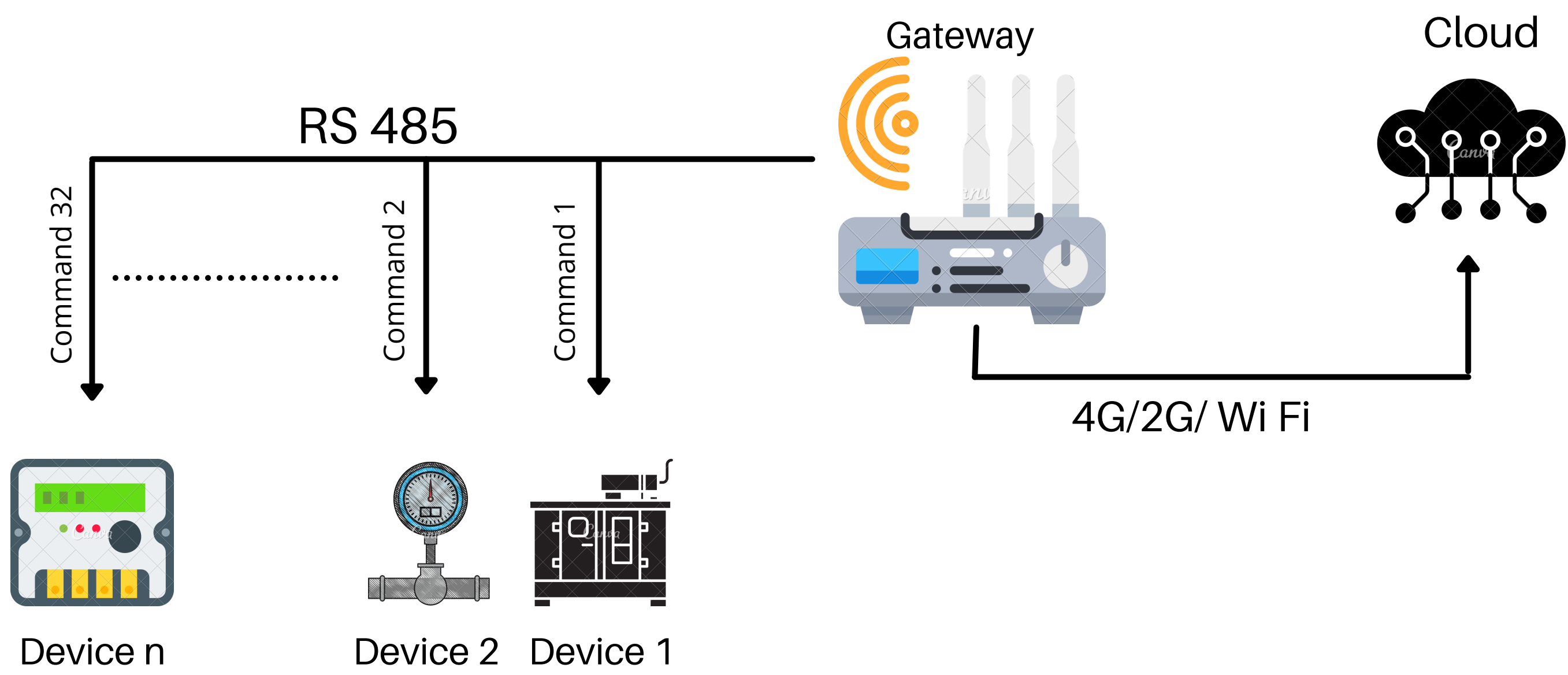
### Secure

Encrypted Data  
Email & SMS Alerts

GSM Band	
4G	<b>LTE-TDD: B38/B39/B40/B41</b> <b>LTE-FDD: B1/B3/B8</b>
3G	<b>UMTS/HSDPA/HSPA+: B1/B8</b>
GNSS	<b>GPS/Beidou/GLONASS</b>
2G	<b>GSM/GPRS/EDGE: 900/1800MHz</b>
Data Rate	
4G (LTE Cat-4)	<b>150Mbps(DL) / 50Mbps(UL)</b>
3G (HSPA+)	<b>42Mbps(DL) / 5.76Mbps(UL)</b>
2G (EDGE)	<b>236.8Kbps(DL) / 236.8Kbps(UL)</b>
2G (GPRS)	<b>85.6Kbps(DL) / 85.6Kbps(UL)</b>
SOFTWARE SPECIFICATIONS	
Communication	<b>TCP/UDP/Modbus/HTTP(S)/MQTT</b>
Modbus mode	<b>Auto Modbus collection, supports up to 32 commands, user-defined command period and interval</b>
HTTP(S) mode	<b>Supports HTTP/HTTPS POST (json format) configurable server address and port</b>
MQTT mode	<b>Supports multi topics subscription and publish</b>
SMS	<b>SMS Based Device status updates</b>
COnfiguration Settings	<b>Configuration Settings using Host PC</b>
FOTA	<b>Firmware upgrade over the air</b>
Security	<b>TLS based Encryption</b>

Hardware Specifications	
Power Supply	Wide Input Range 9-32 VDC,Reverse Polarity Protection
Serial Ports	RS232:connector: DB9 female protection: TVS protection, anti-surge, ESD
Modbus	RS485: connector: screw terminals (A, B) protection: anti-surge, 5KV ESD protection
Serial port baudrate	Supports 300bps ~ 921600bps, 115200bps by default
SIM Slot	Mini SIM connector
Indicator	Power,RS485 communication & Network
Antenna	LTE,GNSS
Display	16 x 2 Character LCD
Enclosure	200 x 120 x 75 mm, IP 65 type
CPU	Powerful ESP 32 Core
Operating Temperature	-20°C~80°C
Wi Fi	TCP/IP, full 802.11 b/g/n/e/i WLAN MAC protocol
LoRA	433Mhz ISM Band, Point to Point with Star Topology
SD card	Micro SD Card for Data Logging
Analog Inputs	2 Channel 4-20mA or 0-10V
Digital Inputs	230VAC Digital Inputs
Outputs	2 Channel Relay Output up to 8Amp Load
Sensors	DHT 22 Temperature & Humidity Sensor input

# MODBUS Communication



# LoRa Communication

