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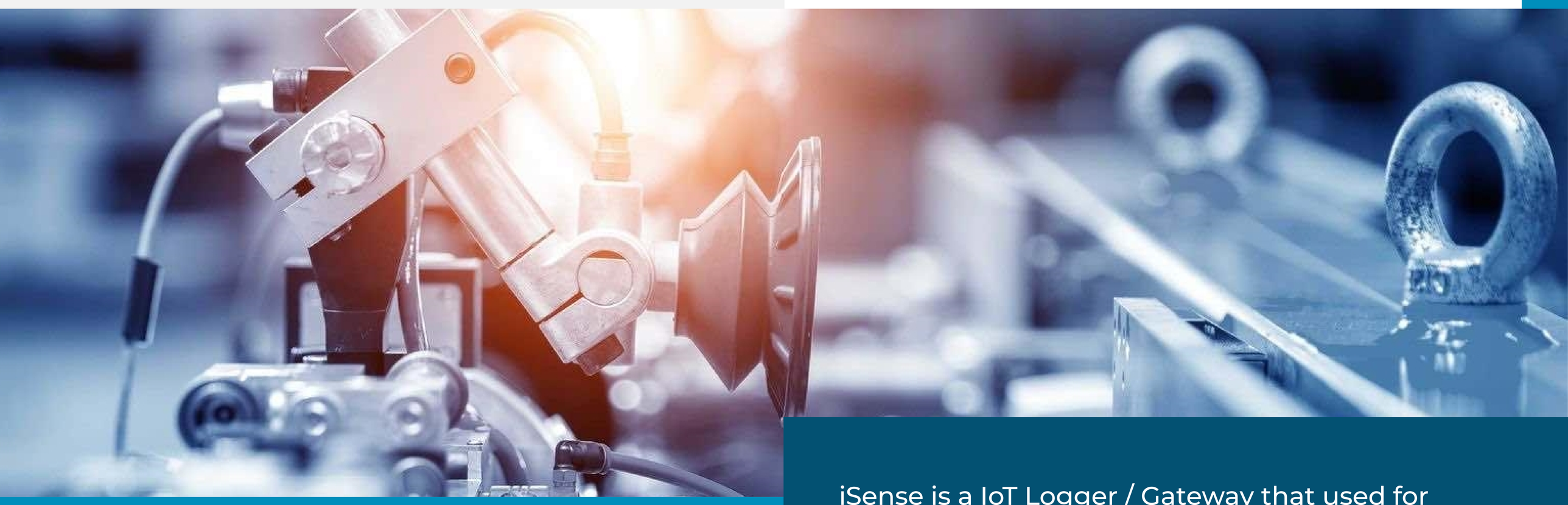

iSense

Iot Logger / Gateway / Controller

iSense is a IoT Logger / Gateway that used for industrial applications. It comes in various form factors to suit corresponding technical requirements.

It is an IoT computing device with embedded software applications that interfaces with the site equipment's, connects to sensors and to other third party systems that need to be monitored and controlled.

Benefits

- In case of a change of state triggers alarms that are sent with immediate effect without being hindered by the scheduled time interval. The AI-based algorithms makes this possible.
- While the data transmission is set for an interval or during the triggering of the alarm, the data collection is done seamlessly and continuously. This data helps perform predictive maintenance improving Total Productive Maintenance (TPM).
- iSense also monitors the change in battery levels and fuel consumption to ensure better utilization of the energy, thus making lesser carbon footprints
- Increases site security and decrease theft of battery and fuel.
- The increased performance also increases the uptime without fluctuations

Key Features

Predictive and Preventive measures

- ☑ Optimization of run hours
- ☑ Optimization of battery management
- ☑ Complete compliance with regulations
- ☑ Reduction of wastage of energy
- ☑ Better fuel management
- ☑ Energy cost management

CONTACT US

80 2668 1681, sales@invendis.com
230, 1st Cross, 38th Main, BOOHBCS Layout,
BTM 2nd Stage, Bangalore – 560 068.

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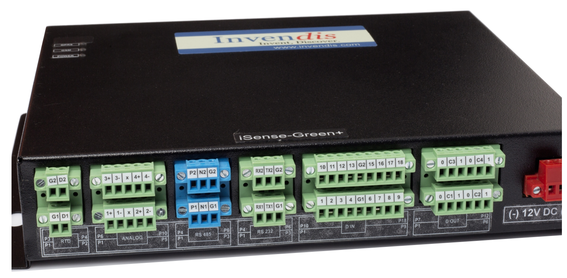
iSense Green+

Features

- ✔ ARM 7, SDRAM and External Flash
- ✔ Single Ethernet port (Speed:10/100Mbps)
- ✔ Dual SIM -GSM/ GPRS (4G) Connectivity
- ✔ High-precision analog inputs
- ✔ Opto-isolated digital inputs
- ✔ Relay outputs
- ✔ USB 2.0 host port (for configuration)
- ✔ Device Status Indicators

Specification	**iSense –Olive**
Digital Inputs	16 with Isolation
Digital Output	4 Channel with Relay contact rating 230V/1A
Temperature probes	External Probes : 2 Channel [Digital Temperature Sensor]
Analog Input (Voltage)	2 Channels [0-60V] (Isolated)
Analog Input (Current)	2 Channels [4-20mA] (Isolated)
RTC	On board RTC with battery back-up
LED	3 on board LED for status indication
Wired Communication	RS485 : 2 Channel (Isolated)
	RS232 : 2 Channel (Isolated)
	USB: 1 Port for Device Configuration (USB –A Female)
	Debug : 1 Port
	Ethernet : 1 Port [10Base-T and 100Base-T]
Wireless Communication	Modem : Quad Band GSM/GPRS/4G SIM : Dual Port Antenna : External type [SMA]
Power supply	Nominal 12V DC [Operating Range : 20 to 60V DC]
Operational Temperature	-10°C to 65°C
Storage temperature	-40°C to 85°C
Humidity	95% RH (Non-Condensing)
Protocols	Modbus RTU/ ASCII, TCP/IP
Enclosure	10.5 " x 6.4" x 1.9" with powder coated
Interface connector	Plug and play terminal connector with screw lock



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iSense Battery 12V-3Ah Li-on

Features

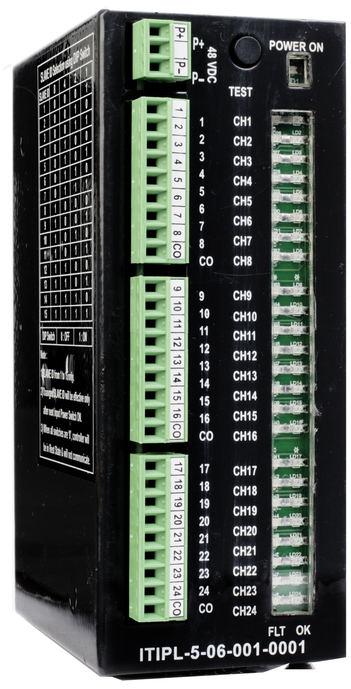
- ☑ Specifications to be arranged by customer locally
- ☑ For providing 7 hours backup for our RMS unit, the battery of 7.0Ah 12V is recommended

POWER

• **Nominal Voltage**	12V
• **Rated capacity (20 hour rate)**	3Ah

DIMENSIONS - MM

• **Length**	151mm
• **Width**	65mm
• **Height**	96mm
• **Total height**	101mm
• **Approximate mass**	2.54 kgs



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iSense Violet+

Features

- ☑ Pre-built Linux OS with file system
- ☑ ARM9 CPU with built-in SDRAM and Flash
- ☑ 10/100Mbps Ethernet ports onboard
- ☑ 4G GSM/ GPRS – Dual SIM onboard
- ☑ High-precision analog inputs
- ☑ Opto-isolated digital inputs
- ☑ RS-232 port
- ☑ RS-485 port

Standard Specification of iSense IO Ports:

Sl. #	iSense IO Port	Specs / Limits	Site / Source Requirement
1	Digital Input Ports	Internal 12V Operated	Potential Free Contact to be available
2	Analog Input Ports - Voltage	0 to 60V DC	The Voltage should be within the said limits
3	Analog Input Ports -Current	4 to 20mA@12V DC	The Current should be within the said limits
4	Temperature Ports	1 Wire Digital Temperature Probe	Only Invendis provided temperature will work with iSense.
5	Digital Output Ports	DO Relay Operates with internal 12V, Contact Rating 1A @30V DC	The on board relay can be used to drive a power relay if the switching Load is exceeding the said limits
6	RS 485 Port	3 Wire, Half Duplex RS485 Port	Should adhere to standard RS485 communication with 120Ω resistor

The Slave device should have the below settable parameters:

- Parity (0-None, 1-Odd, 2-Even) – None is preferred.
- Baud Rate (9600, 19200, 115200) – 9600 is recommended.
- Stop Bit (0, 1) - 1 is preferred.
- Data bit (8, 9) – 8 is preferred.

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iSense Vega

Features

- ☑ Pre-built Linux OS with file system
- ☑ ARM9 CPU, SDRAM and Flash
- ☑ 10/100Mbps Ethernet ports onboard
- ☑ GSM/ GPRS - Dual SIM onboard
- ☑ High-precision analog inputs
- ☑ Opto-isolated digital inputs
- ☑ RS-232 port
- ☑ RS-485 port

Microcontroller	Atmel ARM Series	
Digital Inputs	24 nos,	Potential free type, Optically Isolated Digital Input
Digital outputs	8 nos	Potential free relay outputs, internally driven relays
Analog Input	8 on- board Isolated, 2 dedicated AI ports with RTD probes Accuracy: ±1% ; Voltage / Current selection through jumper	
Inputs/ Outputs	All I/O (Excluding digital outputs) have provision for Galvanic Isolation with Surge/ Overvoltage protection. All I/O's with provision of onboard LED	
RTC	RTC with battery back-up	
LED	5 onboard LED, I/O LED	
Generic Serial communication ports	RS232 -2Number, RS485 – 2 Number.	
High Speed serial communication port	USB	
Wireless Communication – On board	Dual SIM 4G GSM / GPRS module with external antenna and built-in GPS	
Wired Communication – On board	Ethernet 10/100 - 1 LAN Port (Internal)	
Power supply	10V to 15V DC and 20 to 60 Volts DC	
Operational Temperature	0°C to 60°C	
Storage temperature	-20°C to 85°C	
Humidity	95% non-condensing	
Routing Function	Ethernet Ports – 2 X LAN Port 10/100 – 1XWAN Port 10/100	
Protocols	Modbus RTU/ ASCI, TCP/IP, SNMP	
Features Supported	VPN, SSH, Port Forwarding	

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About Invendis

What we do

Innovative products

We manufacture agnostic IoT, M2M & AI hardware & software products. Our hardware products can be installed in all weather conditions whereas our software can be deployed in VM and in all environments.

Smart & Secure sites

Our products are used to make remote site equipment smart as well as to secure them with advance alarming & notifications transmitted on near real-time basis.

Empower Field Force

We improve field force productivity with smart mobile applications and empower them with technology to directly access and control site equipment on the go.

OUR SOLUTIONS HAVE SERVICED

140,000+	250MW+	15+	22+	500,000+	20,000+
Telecom Towers	Solar Portfolio	Global MNO/ Tower CO	Countries	Connected Assets	Enterprise Users

Invendis designs develops and markets the most widely usable remote monitoring systems and services to global infrastructure companies to enable them to monitor, control, maintain and manage their distributed infrastructure assets efficiently

We at Invendis Technologies India Pvt. Ltd. recognizes that Information Security and assets are the responsibility of each one of us in the organization. We are committed to creating a secure ecosystem that will enable us to secure information against unauthorized changes, tampering, destruction, or loss by implementing the “Information Security Management System”.

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