

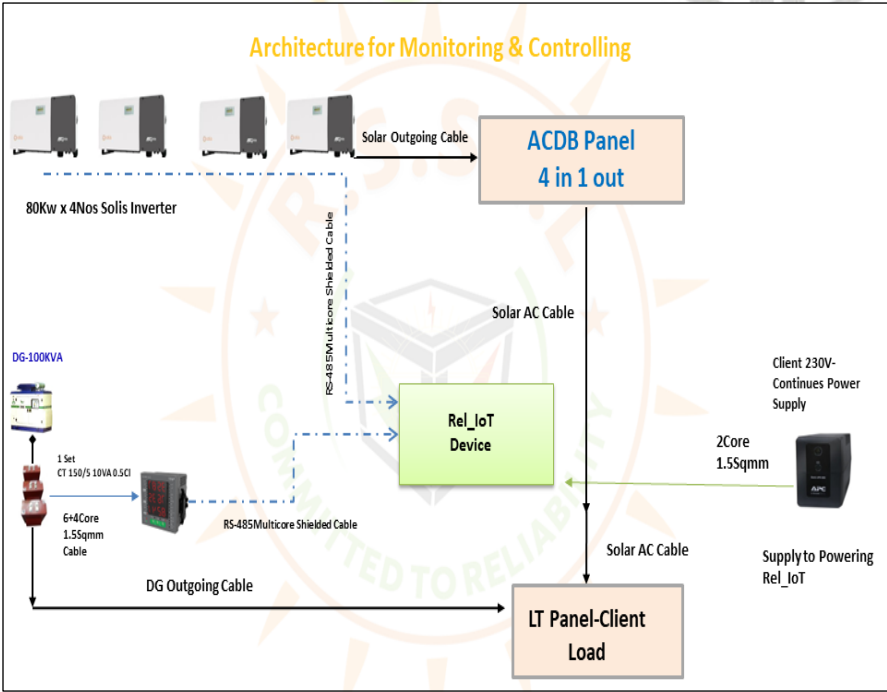


# RSS\_IIoT: Monitoring & Controlling



## Overview

**RSS\_IIoT** is a wireless cellular connection for 2-way data communication with a wide variety of remote equipment and Utility applications. "Plug n Play" architecture allows reading various analog sensors data and interfacing with digital IOs from PLC. Besides, the device supports RS485/MODBUS-RTU for industrial application. Its fail safe mechanism eliminates possibility of data loss even in adverse network connections. In case of network failure, modem resumes data transfer to cloud server upon connection restoration. Specially designed input power capability works even with solar powered remote stations operating at sub-10 V DC . The modem and ports are remotely configurable via our proprietary IOT web platform offering custom automation, alarms and analytics features.



- ### Key Features:
- Versatile Data Logging
  - 2 Digital Inputs
  - 2 Digital Outputs
  - RS485/Modbus RTU
  - Data Security
  - End to end Data Encryption
  - Data & time stamp
  - Remote Rel\_IoT Device configuration
  - Data Visualization and Analytics
  - No Data Loss Ever
  - Designed to withstand adverse network connections
  - GSM/ GPRS /LTE
  - Configurable Data Sync Frequency

## RELIABLE SOURCE AND SOLUTIONS INDIA LLP

Head Office: 435, Street No-6C, Mawai Road, Karuna Nagar Faridabad, Haryana, 121002

Works: 279, Khera Chauganpur, Near Shani Mandir, Ecotech-III, G.B.Nagar, U.P. 201301

Email: [info@rss-india.com](mailto:info@rss-india.com)

Sales: (+91) 9953698441 Technical/Support : (+91) 8800132874



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Specifications										
Model Number	RSS_IIoT-2M	RSS_IIoT-2C&M	RSS_IIoT-4M	RSS_IIoT-4C&M	RSS_IIoT-8M	RSS_IIoT-8C&M	RSS_IIoT-10M	RSS_IIoT-10C&M	RSS_IIoT-16M	RSS_IIoT-16C&M
C/M	Monitoring Only	Monitoring & Controlling	Monitoring Only	Monitoring & Controlling	Monitoring Only	Monitoring & Controlling	Monitoring Only	Monitoring & Controlling	Monitoring Only	Monitoring & Controlling
Upto No. of Slaves	2		4		8		10		16	
Core	Arm® 32-bit Cortex®-M4 CPU									
Power Supply	Isolated 24VDC Supply Terminal for Digital Inputs / outputs Wide Operating Range: 8-40 VDC									
Digital Inputs	2 Digital Inputs ports Input version: Suitable for open-drain transistor or switch, 2-wire-technique Break Down Voltage 26.5V with Current Peak 3A Pluggable Screw type Terminal Block									
Digital Outputs	2 Digital Output Ports Output version: bi-stable relay, 2-wire-technique Output current at digital output: up to 5A continuous 24 V Output Voltage Pluggable Screw type Terminal Block									
Modbus	Pre Configurable Mode: Master or Slave Software Programmable Baud Rate: 200, 2400, 4800, 9600, 14400, 19200, 28800, 38400, 57600, 76800 or 115200									
Additional Slots	Micro SIM with card adopter (4G) MODBUS (RS485): pluggable screw terminal block									
Data Transfer Rates	5.76 Mbps/ 21 Mbps (Uplink/Downlink)									
Wireless Technology	850MHz - 1800 Mhz, GSM. GPRS, UMTS, LTE, VoLTE SMS (configurable up to 5 Number ) FTP / HTTP / HTTPS / MQTT External Antenna - SMA (GSM/GPRS) 50 Ohms									
Operating Temp	Operating Temperature: 0°C to 70°C									
Time Sync	RTC / Time Sync with International Time (Cellular Network)									
Security	Security: Hardware Assist Encryption (AES); Inbuilt Surge Protection									

**Application Areas:** Solar Energy Monitoring, Solar Energy Monitoring & Controlling, Energy Management System, Water & Air Quality Monitoring, Telemetry, Sub station Monitoring & Control, Wireless data transfer from data loggers, DG Parameters Monitor & Control, Sensors, Recorders, RTU and PLC devices, Energy, Gas and Fluid Meter manufactures, Pumping stations & Control, Remote monitoring & Control for Machines

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