



ES Electronics (India) Pvt. Ltd.



**IoT Innovations
for Every Need**



Who are we?

ES Electronics (India) Pvt Ltd. is a fast growing Startup in the space of Internet of Things (IoT). Founded by passionate group of engineers in the year 2017, it has now grown into leading IoT solution provider. It firmly believes that connected infrastructure can reduce energy wastage and solve complex operational challenges.

What we do?

ES Electronics (India) Pvt Ltd. is delivering retrofit table IoT Solutions which are compatible with legacy systems. These solutions eliminate need for complete change in existing infrastructure. Thus making it affordable and Easy to implement on large scale.

What we offer?

The team at **ES Electronics (India) Pvt Ltd.** is extremely passionate about the IoT technology and it envisions solving large scale enterprise problems through affordable and easy to use solutions. More than 100 enterprises are seamlessly managing infrastructure through its pioneering solutions.



30,000+

IoT Devices Deployed



60GWh+

Energy Saved Annually



97B+

Data Points Analysed
Annually



60M+

Remote Operations
Performed Annually

The power of IoT lies in its ability to connect the unconnected

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Smart Time Switch

STS is a next generation time switch that allows remote management of electrical loads via your smart phone. Intelligent control and diagnostics through smart phone enhance operational efficiency and helps you save energy. Inbuilt energy metering helps to keep track on consumption pattern and gives alerts when it crosses the nominal values.

Product Variants

Features	UT-ST5-3P-V2-4G-X-I	UT-ST5-3P-V2-LN-X-I
Supply Voltage	5V DC, 2A	
Technology	4G modem with 2G fallback	Ethernet LAN
Max Power Consumption	< 10 W	
LED Indications	Power On, GPRS Network, Server Connectivity, Timer Status	
Timing	RTC with battery backup	
Security	AES 128-bit encryption	
Phase Supported	Three Phase	
Voltage Range	50V to 500V AC	
Load Capacity	Up to 160 A per phase	
Output	3 relays @ 10A 250VAC	
Analog Inputs	One (up to 20V DC)	
Manual Switch	Yes (For on-field load ON/OFF)	
Auxiliary Input	2 digital inputs	
Electrical parameter captured	Voltage, Current, Apparent Power, Real Power, Reactive Power, Power factor, Apparent Energy, Real Energy, Reactive Energy, Frequency	
Dimensions	110 x 105 x 74 mm	



CCMS RTU

CCMS RTU is an IoT device that controls electrical equipment and monitors metering data via external energy meter in the CCMS panel. Peripherals such as analog and digital inputs help timely status update of panel components such as panel door switch, contactor faults, MCB trip, backup battery and power supply status etc.

Product Variants

Features	UT-RTU-P-V1-4G-I	UT-RTU-P-V1-LN-I
Supply Voltage	5V DC, 2A	
Technology	4G modem with 2G fallback	Ethernet LAN
Max Power Consumption	< 10 W	
LED Indications	Power On, GPRS Network, Server Connectivity, Timer Status	
Timing	RTC with battery backup	
Protocol	TCP-IP	
Security	AES 128-bit encryption	
Output	3 relays @ 10A 250VAC	
Analog Inputs	Two (up to 20V DC)	
Auxiliary Input	6 digital inputs	
Storage Memory	Event Records - 2000, Meter Records - 1000	
Handheld Terminal Port	RS485	
Manual Switch	Yes (For on-field load ON/OFF)	
Energy Measurement	Supports RS232 based DLMS compliant energy meters	
Special Features	Main supply detection, Earth leakage current measurement	
Dimensions	110 x 105 x 74 mm	

CCMS Panel

The Centralized Control and Monitoring System (CCMS) panel is a customizable solution tailored to meet specific customer requirements. It allows for the selection of components such as contactors, surge protection devices (SPD), and incoming and outgoing MCBs based on load needs. This flexibility in design makes the CCMS panel an ideal choice for new projects like Smart Cities, highways, airports, ports, and power plants, where adaptability and efficiency are crucial.



How it works



Features



Inbuilt/External
Metering



Earthing Leakage
Monitoring



Surge
Protection



Multiple
Scheduling Mode



Phase wise
control

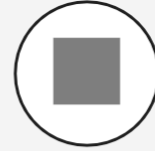


Bypass
Switch

Applications



Smart
Cities



National
Highways



Airports



Refineries



Power
Plants



Business
Parks

Gallery



Statue of Unity Area Development
and Tourism Governance Authority



Navi-Mumbai Municipal Corporation



Industrial Automation Panel

Industrial Automation Panel is a new generation IoT enabled panel that controls various loads via different automatic modes on its 3 output channels. It also monitors energy parameters of all the connected loads. It can work in the offline mode. Manual switch and 2G/4G based connectivity allows user to operate and configure device on the go. It has 2 digital input channels to monitor the status of electrical components such as MCB, Contactors, Panel Doors etc.

Features



Remote Controlling & Monitoring



2G/4G Connectivity



Offline Data Storage



Panel Health Monitoring



Multiple Scheduling Modes



Over the Air Firmware Update

Gallery



Godrej (Dahej)



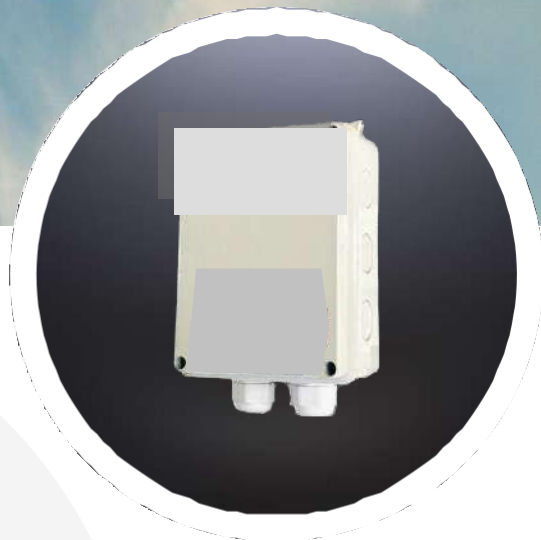
Mumbai International Airport



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Technical Specifications

Features	UT-IOT-PN
Supply Voltage	150V-265V, 50-60Hz
Phase Type	Single/Three phase
Operating Temperature	0°C TO +55°C
Battery Backup	Upto 2 hours
Output Relays	3 NO relays (10A rating)
Connectivity	2G/4G
Software Application	Utopiatech's IoT platform (EazyLIT)
Monitoring	Voltage, Current, Load (KW, KVA), Energy (KWh, KVAh), UPS output status, ambient temperature and humidity, Earth Voltage, UPS output current, UPS output voltage, UPS health status, UPS battery voltage
Relay Operating Mode	Fixed, Astro, Hybrid, Interval & Periodic
Input type	2 Digital input connections
Mounting	Wall mounting
Dimensions	350 X 250 X 130 mm
Junction Box Type	ABS/PC IP-65 Junction Box



ILM

Individual Light Monitoring controller is the pole mount solution for smart street lighting. This innovative solution can be easily installed on any pole, providing the capability to control up to two lights using a single controller. It provides remote on/off control and dimming of street lights and real-time monitoring of metering parameters as well as various fault conditions.

Features



Remote Controlling



RF Connectivity



Offline Data Storage



Remote Monitoring



Multiple Scheduling Modes

Gallery



Technical Specifications

Features	ILM Lora	ILM RF
Connectivity	LoRaWAN	RF
Input Power Supply	230V AC	
Power Consumption	10VA max	
Wireless Range	Upto 1 km LOS	Upto 300 m LOS
Networkd Topology	Star Topology	Hybrid Topology (Mesh)
Number of Relays	1 (NO/NC - COM)	N/A
Contact Rating	10A @250 VAC	N/A
Operating Modes	Astro, Fixed, Hybrid, Interval, Instant	N/A
Real Time Clock	Yes with 5 years battery backup	N/A
Offline Data Storage	Yes (Alert events only)	N/A
Alert Features	<ul style="list-style-type: none"> • Overvoltage, Undervoltage Protection • Overload Protection • Lamp Fault Detection • Power down alert 	<ul style="list-style-type: none"> • Lamp Fault Detection
Dimming Output	Yes (0V to 10V)[Individual dimming]	Yes (0V to 10V)[Group dimming]
External Communication	RS485	N/A
Fail safe operation	Yes. NC contact for load operation	N/A
Measuring parameters	AC Voltage, AC Current, PF, Active Power, Apparent Power, Frequency, Active Energy, Apparent Energy	N/A
Input voltage measurement range	0 to 500 VAC	N/A
Current	0 to 5 A	N/A
Frequency	45 to 65 Hz	N/A
Measuring Accuracy	1%	N/A
Operating Temperature	0°C to 55°C	
Storage Temperature	-20°C to +70°C	
Humidity	95% RH	
Storage Temperature	-20°C to +70°C	

Our IoT Adopters



All over India IoT deployment

At ES Electronics (India) Pvt Ltd., we provide IoT solutions all over India, helping businesses become smarter and more connected. Our services make it easier for companies to work efficiently and make better decisions. Whether it's for outdoors or indoors, ES Electronics (India) Pvt Ltd. connects devices and data to transform how our clients operate and succeed.



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