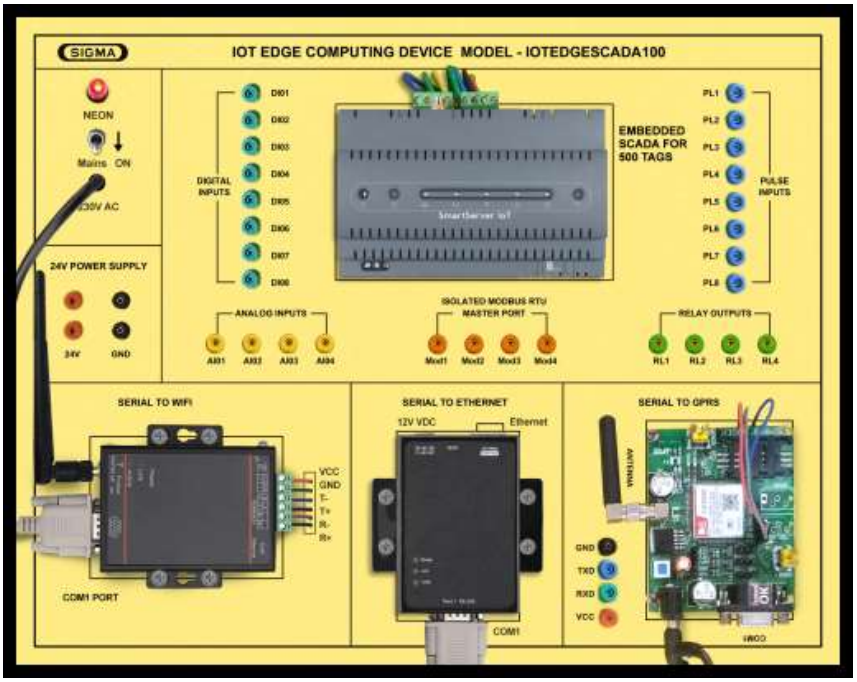
IOT EDGE COMPUTING DEVICE

MODEL-IOTEDGESCADA100

SPECIFICATIONS



This trainer has been designed with a view to provide practical and experimental knowledge of IoT EDGE Computing Device.

SPECIFICATIONS

A. Main Specs

1. Following Parts and Modules are assembled on Single PCB of size - 18 Inch x 15 Inch.
2. The complete circuit diagram is screen printed on component side of the PCB with circuit and Parts at the same place.
3. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement.
4. Modules and Parts should be removable without desodlering for easy repair / replacement
5. The acrylic cover is fitted on PCB to safeguard main parts.

B. Modules and Hardware

1. Embedded SCADA for 500 Tags
2. 24 VDC Isolated Power Supply
3. 4 MODBUS RTU Master
4. 32 GB Built in SD Card
5. 1 Wi-Fi Port
6. 1 Ethernet Port
7. 1 GPRS Port
8. 4 Analog Inputs (0.1% FSR)
9. 8 Pulse Inputs (up to 1 kHz)
10. 8 Digital Inputs
11. 4 Relay Outputs

C. Accessories

1.	Ethernet Cable	: 2 No
2.	Jumper wires	: 30 Nos.
3.	Software and Driver CD	: 1 No.
4.	Practical Manual - Printed + Soft Copy	: 1 No.
5.	E-Books for Subject	: 10 Nos. in PDF Format
6.	Mp4 Video Class for Subject	: 40 Nos

EXPERIMENTS

A. Theory Experiments

1. To study theory of Embedded SCADA for 500 Tags
2. To study theory of 24 VDC Isolated Power Supply
3. To study theory of MODBUS RTU Master
4. To study theory of 32 GB SD Card
5. To study theory of Ethernet IOT Data Acquisition using Ethernet Port
6. To study theory of Wi-Fi IOT Data Acquisition using Wi-Fi Port
7. To study theory of Cellular (GSM / GPRS) IOT Data Acquisition using GPRS Port
8. To study theory of 4 Analog Input
9. To study theory of 8 Pulse Inputs
10. To study theory of 8 Digital Inputs
11. To study theory of 4 Relay Outputs
12. To study theory of Serial to Ethernet Converter
13. To study theory of Serial to Wi-Fi Converter
14. To study theory of Serial to GPRS Converter

B. Hardware Experiments

15. To use and implement Embedded SCADA for 500 Tags
16. To use and connect 24 VDC Isolated Power Supply
17. To use and implement MODBUS RTU Master
18. To store acquired data into 32 GB SD Card
19. To use and implement 4 Analog Input
20. To use and implement 8 Pulse Inputs
21. To use and implement 8 Digital Inputs
22. To use and implement 4 Relay Outputs
23. To acquire data using Ethernet IOT Data Acquisition using Ethernet Port
24. To acquire data using Wi-Fi IOT Data Acquisition using Wi-Fi Port
25. To acquire data using GPRS IOT Data Acquisition using GPRS Port
26. To convert acquired serial data into Ethernet data using Serial to Ethernet Converter
27. To convert acquired serial data into Wi-Fi data using Serial to Wi-Fi Converter
28. To convert acquired serial data into GPRS data using Serial to GPRS Converter

Contact US

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