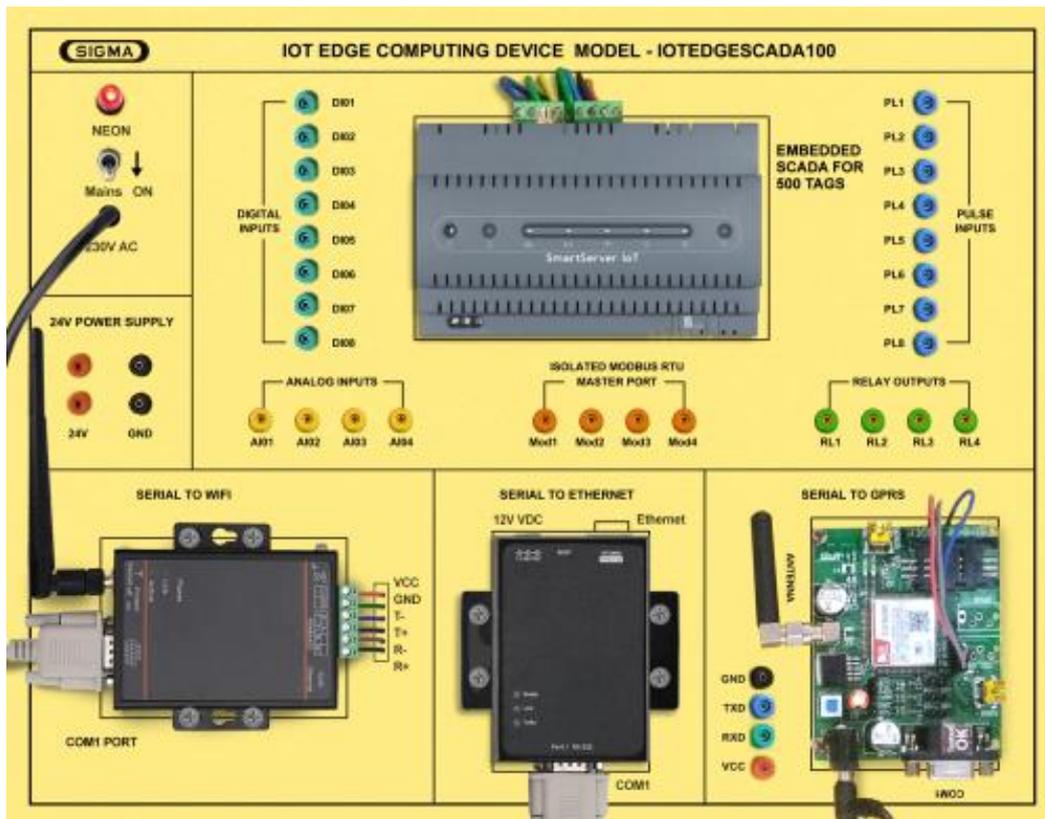# SIGMA

77. 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

(1) Hardware

Following Hardware is assembled on Single PCB of size - 18 Inch x 15 Inch

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

(2) 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

(3) Cabinet and PCB

The complete circuit diagram is screen printed on component side of the PCB with circuit and Parts at the same place. The PCB with components on front side is fitted in elegant wooden box having lock and key arrangement. The acrylic cover is fitted on PCB to safeguard parts. It works on 230 V AC Supply.

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

CLASS ROOM TRAINING – ONLINE AND OFFLINE

The training includes Single user Classroom / laboratory teaching, learning and simulation software module. The content has easy explanation of various complex topics with animation and simulation for ease of student learning. It also supports learning through videos, graphs, charts, along with mandatory rich content and theory to understand fundamental concepts, interactive learning objects, FAQ, MCQ etc. The content is supplied in digital online access or license protection.

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