



Mr. Rajiv J Dhawan

Email: rajiv.dhawan@ams-india.co.in | Mobile: +91 9552523719

Address: 108E , SRS Road, Peenya Industrial Area ,
Phase 3, Bangalore 560 058, Email: info@ams-india.co.in

Mr. Vishal Adhav

Email: vishal.adhav@ams-india.co.in | Mobile: +91 7972270646

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IOT Kits for Center Of Excellence (COE) AMS-India



KIT - 1

IOT System for Metrological Inspection

Student will understand the concepts of IOT enablement in Metrology of Industrial components Metrology Measuring Station

Digital Dial gauge with Metrology Stand with 0.1mm accuracy



RS232

AIO BOX

Go Indication
NO GO Indication
± Over Tolerance Indication
Digital Management



4G

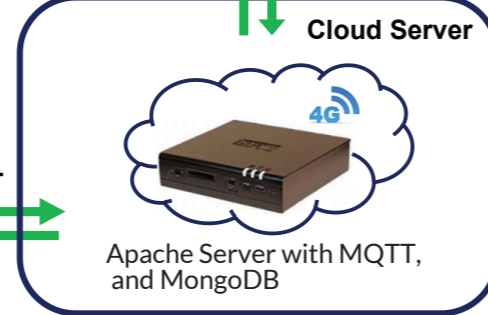
QTT/HTT

Metrology Measuring Dashboard



HTTPS

Cloud Server

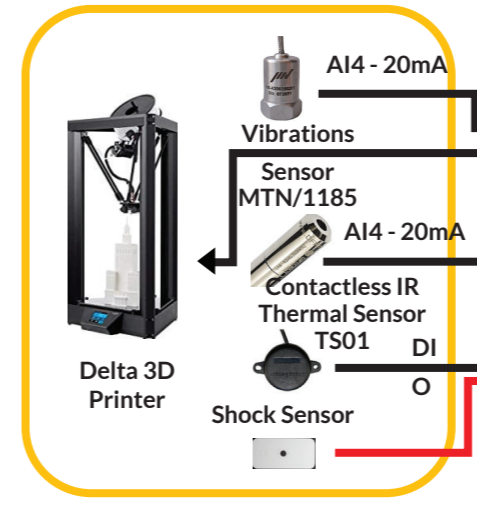


Apache Server with MQTT, and MongoDB

KIT - 3

IOT System for Additive Manufacturing

3d Printing System



Student will learn IOT enable monitoring of the health parameters of AM Process



AMS 3D Gateway with M2M SIM
Edge Devices

AM process parameter dashboard



HTTPS

Cloud Server



AMS PC with MQTT Server, Apache Server, MongoDB

KIT - 2

IOT System for Metrological Inspection – Industrial Demo



Source: AMS India

KIT - 4

IOT System for Process Monitoring

Conveyor Sorting Station

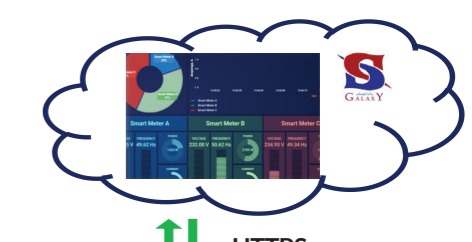


Student will learn IoT enablement of sorting, Dashboarding and real time update of rejected and accepted parts



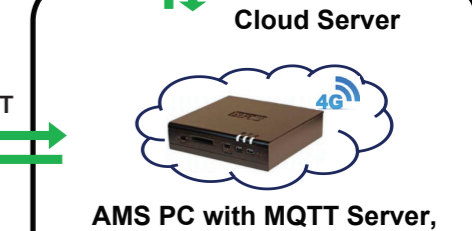
AMS IOT01 Gateway with M2M SIM
Edge Devices

Simple IoT Dashboard



HTTPS

Cloud Server



AMS PC with MQTT Server, Apache Server, MongoDB

KIT - 5

IOT System for Process Monitoring

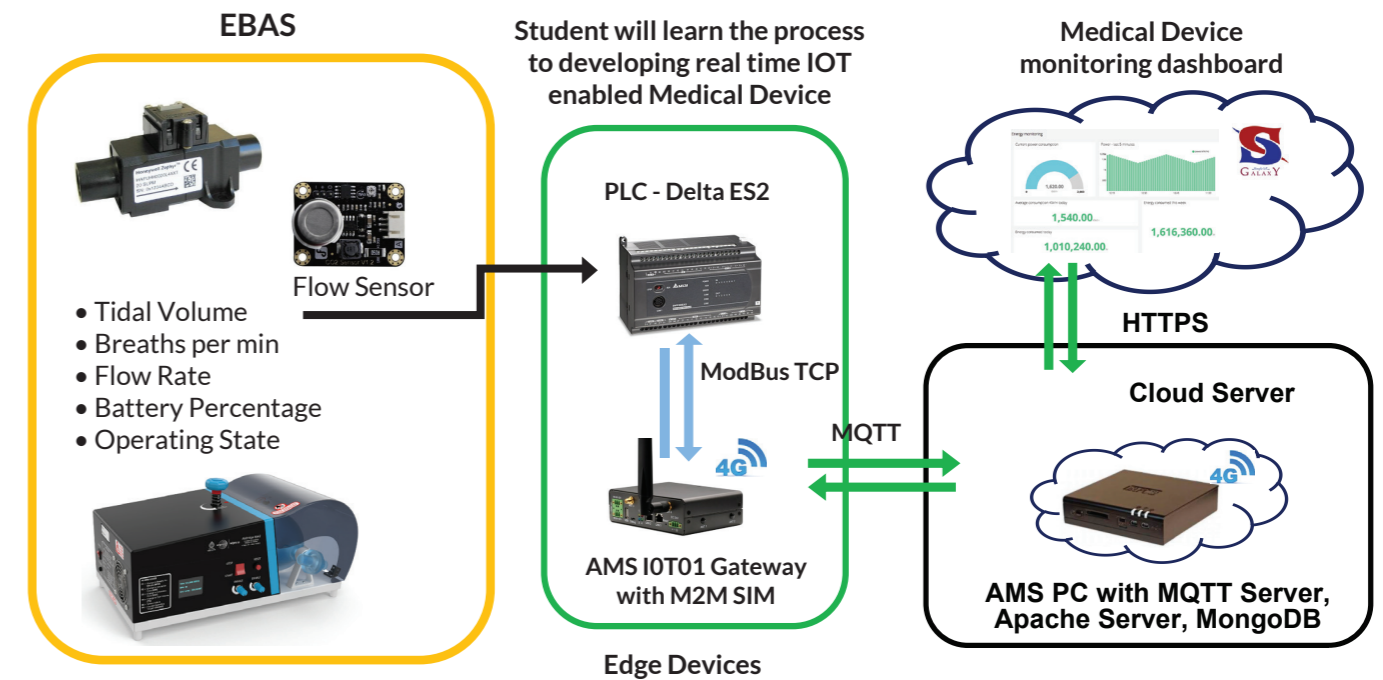


With Vision Kit identifying and sorting different color blocks

Source: AMS India

KIT - 7

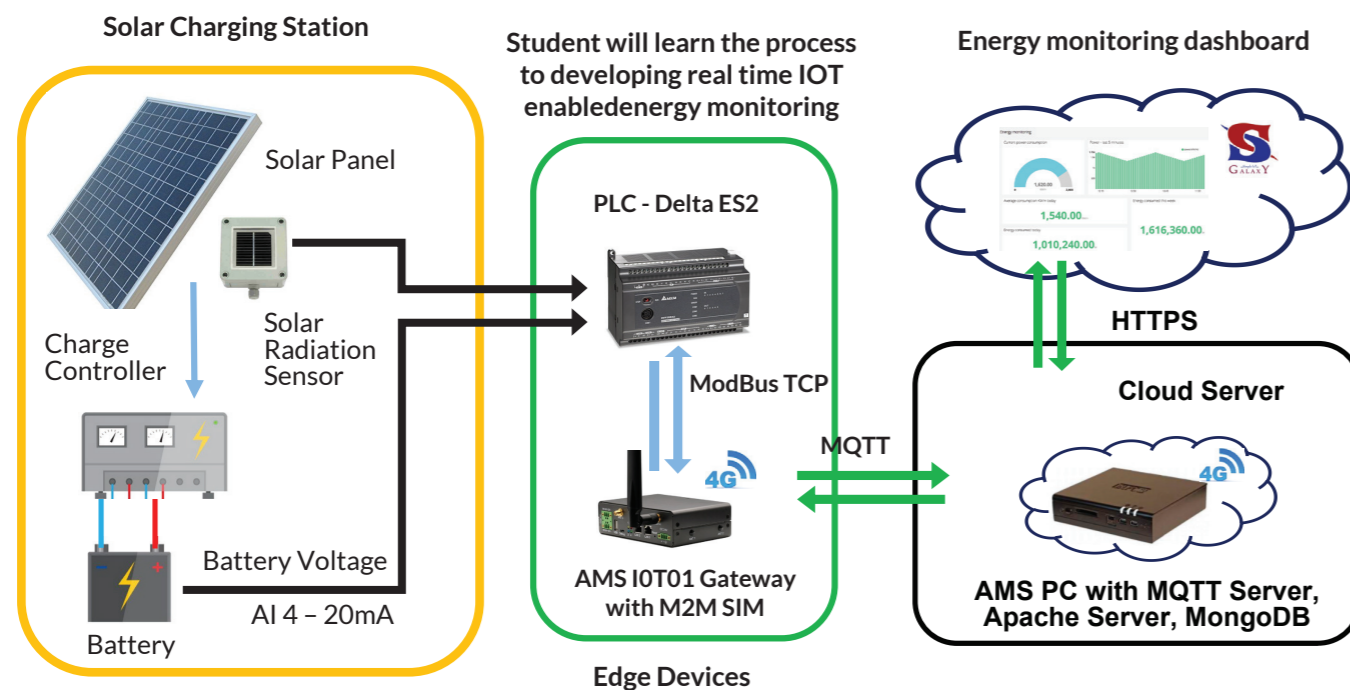
IOT System for EBAS Medical Device



Student will learn the process to developing real time IOT enabled Medical Device

KIT - 6

IOT System for Renewable Energy Applications



IoT Products and Offerings

IOT Solutions

- Metrology and Checking
- Maintenance Management
- Process Control
- Productivity Monitoring

Industry Operation Technology(OT) and Internet Technology (IT) Integration Services:

- Select and Connect Sensors for any application
- Select and Connect and Control thro PLC's
- Select and Configure Gate ways
- Upload , Store and Present Data On - Premise or on Cloud
- Monitoring, Alerts, Reports and Control

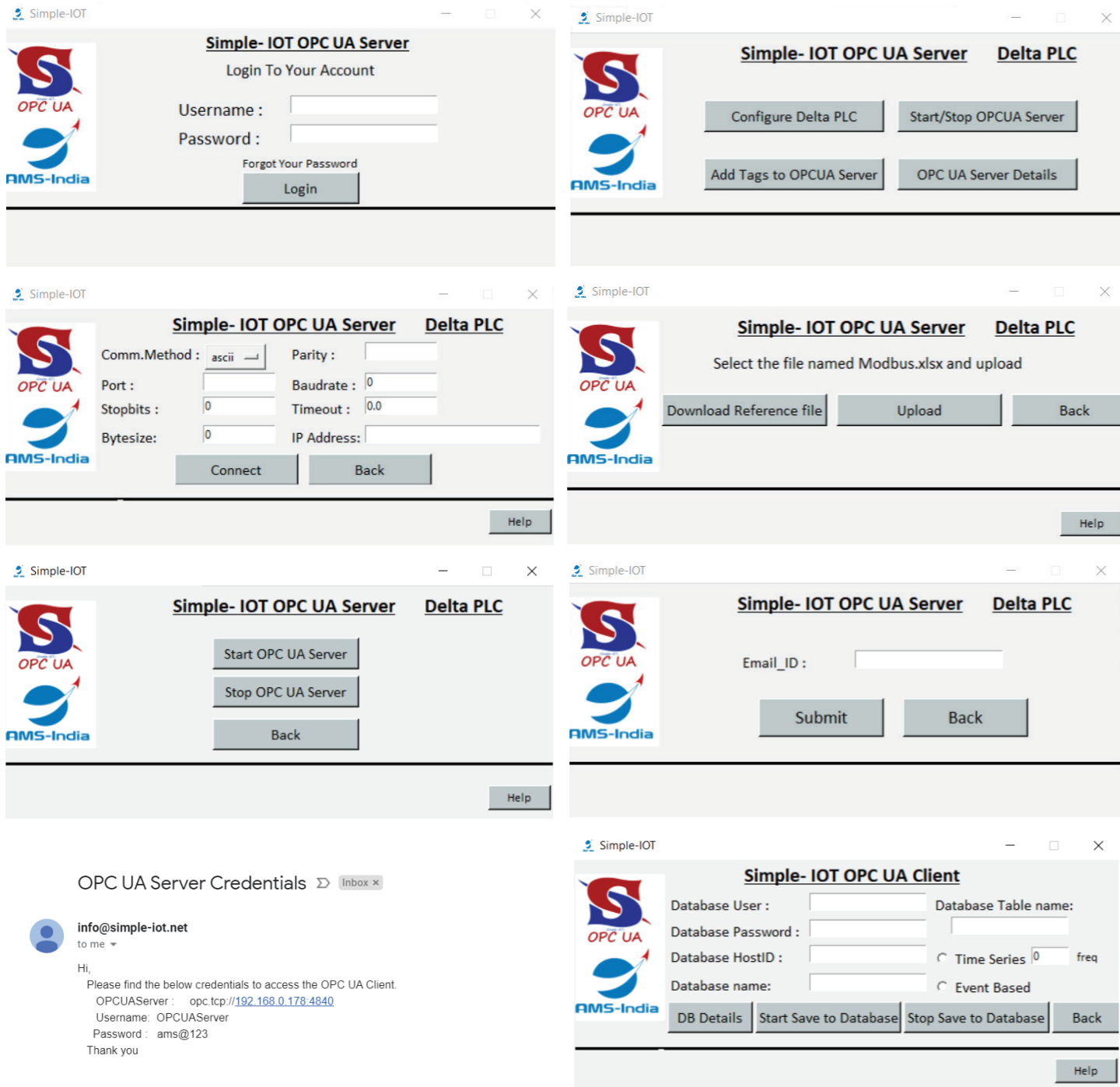
Products connected via IOT.

- AMS -Hyrel 3D Printing Machines
- Plastic Waste Management Machines



Simple - IOT OPC UA Server

MS India has developed a Simple IOT OPC UA server for remote monitoring & Analytics report generation. This is an economical & low cost solution for simple IOT devices, which works on similar lines as Siemens Mindsphere, PTC's Windchill. OPC UA stands for OPC Unified Architecture. It is an extensible, platform-independent standard that enables the secure exchange of information in industrial systems.













OPC UA Server Credentials ▾ Inbox x

info@simple-iot.net
to me ▾

Hi,
Please find the below credentials to access the OPC UA Client.
OPCUAServer : opc.tcp://192.168.0.178:4840
Username : OPCUAServer
Password : ams@123
Thank you
























Controls and Automation

Systems Integrated

Robots	Power Sources	Pneumatics	RFID	Networks
    	   	 	 	<ul style="list-style-type: none"> • Devicenet • Profibus • Interbus • Profinet • Ethernet IP • CC Link • CC Link IE

From BIW Line Building to Individual Cell Automation

Automated Technologies

Automation	IP67 Drives	Safety	Sensors	IO & Connectivity
  	  	      	     	   

AMS- India has done it all for more than 3 decades.