

Criterion IV – Infrastructure and Learning Resources

4.3. IT Infrastructure

Photographs of IT Facilities

SSR Cycle – 3



Since 1881

THE AMERICAN COLLEGE, MADURAI - 625002

(An Autonomous Institution affiliated to Madurai Kamaraj University)

4.3.1 IT Facilities

Campus Wi-Fi Access points



Access Point TP-LINK TL-WA5210G
(outdoor)

Date of Installation : 15-Sep-2015

- High efficiency and Tx output power - **27 dBm**,
- High Rx sensitivity - **54M: -76 dBm**,
- Directional 12 dBi antenna,
- Weatherproof housing,
- ESD protection - **15 kV**,
- Support for **AP** , **WISP** and **AP Router** modes,
- PoE (up 60 m via UTP cable),
- Simple and quick installation,
- Wireless transmission speed up to **54 Mb/s** (turbo mode),
- Transmission range up to **15 km**,
- Vertical or horizontal polarization,
- Second layer isolation of subscriber traffic,
- Information on current speed,
- PING watchdog,
- **Speed test**,
- Remote management,
- Support for WEP, WPA/WPA2,WPA-PSK/WPA2-PSK,
- SMA R/P connector for an external



Access Point TP-LINK TP-LINK CPE210
(outdoor)

Date of Updation : 22-Oct-2018

Protection:

15KV ESD Protection

6KV Lightning Protection

Enclosure:

Outdoor ASA stabilized plastic material

IPX5 waterproof Certification

WIRELESS FEATURES

Wireless Standards: IEEE 802.11b/g/n (with

Pharos MAXstream disabled)

Proprietary Protocol: TDMA Mode (with Pharos

MAXstream enabled)

Wireless Speeds:

Up to 300Mbps (40MHz,Dynamic)

Frequency:

2.4~2.483GHz

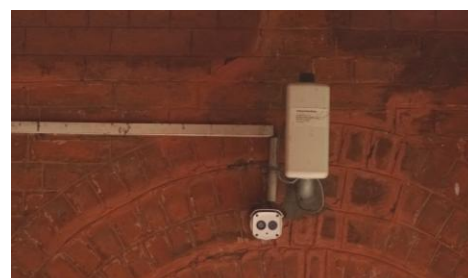
Wifi Access point placement and coverage area



Campus CCTV points

Camera Covering Location Details

S.No	Location	Number of Camera
1	Main Hall	35
2	Controller of Examination	4
3	Auditorium	14
4	Ladies Hostel	2
5	DPM Library	16
6	Paul L Love Hall	16
7	Saunders Hall	16
8	Jones Hall	8
9	Washburn Hall	13
10	Dudley Hall	14
11	Zumbro Hall	3
12	Wallace Hall	5
13	SAT - Main Block	17
14	SAT - Community College Block	7
15	SAT - Telfar Mook Hall	8



Date of Installation : 16-Feb-2016



Date of Installation : 07-Sep-2020

DAHUA Full HD 2MP Cameras Combo KIT 4CH HD DVR+ 4 Bullet Cameras+1TB Hard DISC.

Server



DELL PowerEdge T440 Tower Server

Date of Upgradation : 12-Feb-2020

Management

Embedded / At-the-Server

iDRAC9
iDRAC Direct
iDRAC RESTful API with Redfish

Consoles

OpenManage Enterprise
OpenManage Power Center

Mobility

OpenManage Mobile

Tools

Dell EMC RACADM CLI
Dell EMC Repository Manager
Dell EMC System Update
Dell EMC Server Update Utility
Dell EMC Update Catalogs
iDRAC Service Module
IPMI Tool
OpenManage Server Administrator
OpenManage Storage Services

OpenManage Integrations

BMC® Truesight
Microsoft® System Center
RedHat® Ansible® Modules
VMware® vCenter

OpenManage Connections

IBM Tivoli® Netcool/OMNibus
IBM Tivoli® Network manager IP Edition
Micro Focus® Operations Manager I
Nagios® Core
Nagios® XI

Front Ports

1 x Dedicated iDRAC direct USB
1 x USB 2.0
1 x USB 3.0 (optional)
1 x Video

Rear Ports

1 x Dedicated iDRAC network port
1 x Serial
2 x USB 3.0
1 x Video

Processor

Up to two 2nd Generation Intel® Xeon® Scalable processors,
up to 28 cores per processor

Operating System

Windows 2019 Server 64x OS

Accelerators

Up to one NVIDIA Quadro P4000 (APOS/Customer kit only)

Memory¹

DIMM Speed

Up to 2666 MT/s

Memory Type

RDIMM
LRDIMM

Memory Module Slots

16 DDR4 DIMM slots
Supports registered ECC DDR4 DIMMs only

Maximum RAM

RDIMM 512GB
LRDIMM 1TB²

Storage

Front Bays

Up to 8 x 3.5" SAS/SATA (HDD/SSD) max 128TB

Power Supplies

450W Gold
495W Platinum
750W Platinum
1100W Platinum
Up to 2 hot plugs fans with full redundancy

Ports

Network Options

2 x 1GbE LOM
(optional) LOM Riser 2 x 1GbE, or
2 x 10GbE SFP, or
2 x 10GbE BaseT

Firewall

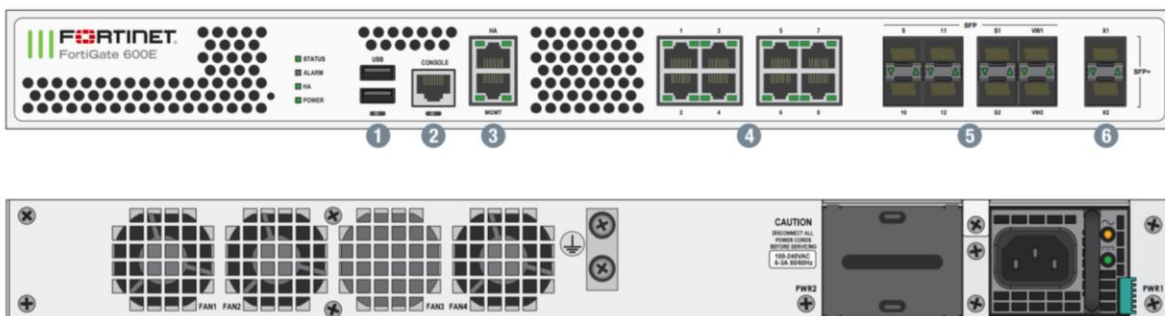


Fortinet Fortigate 600E

The FortiGate 600E series provides an application-centric, scalable, and secure SD-WAN solution with Next Generation Firewall (NGFW) capabilities for mid-sized to large enterprises deployed at the campus or branch level. Protects against cyber threats with system-on-a-chip acceleration and industry-leading secure SD-WAN in a simple, affordable, and easy to deploy solution. Fortinet's Security-Driven Networking approach provides tight integration of the network to the new generation of security

Date of Upgradation : 28-Dec-2020

Firewall	IPS	NGFW	Threat Protection	Interfaces
36 Gbps	10 Gbps	9.5 Gbps	7 Gbps	Multiple GE RJ45, GE SFP and 10 GE SFP+ Slots



Network Switches



Date of Installation : 28-Dec-2020



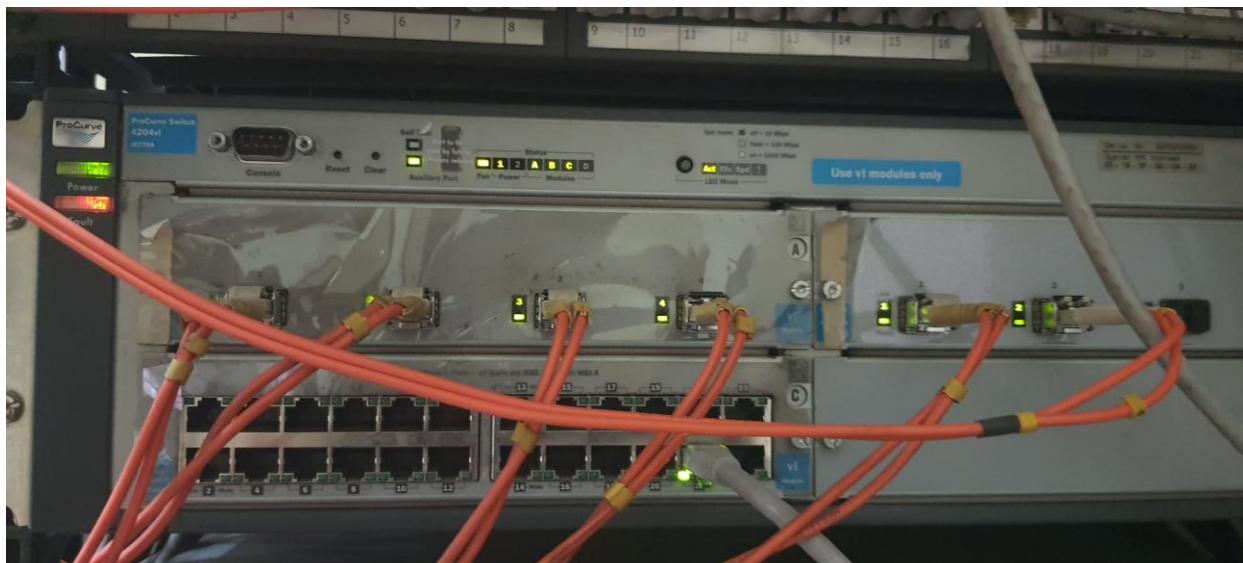
CISCO SG350 - 28 Level 2 Network Switch



CISCO c9200l-24p-4g-e Level 3 Network Switch



Cisco Catalyst 9300-24p-4g-e Level 1 Network Switch



HP Procurve 4204vl Network Switch



Main Campus

Date of Installation : 01.06.2019



Satellite campus

Date of Installation : 16.06.2019

ISP Bandwidth Incoming receiver