Open Networking in the Enterprise



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OCP GLOBAL SUMMIT

OCTOBER 18-20, 2022
SAN JOSE, CA

Enterprise
Connectivity
Solutions

Open Networking in the Enterprise

Jeff Catlin, Sr Director, Celestica

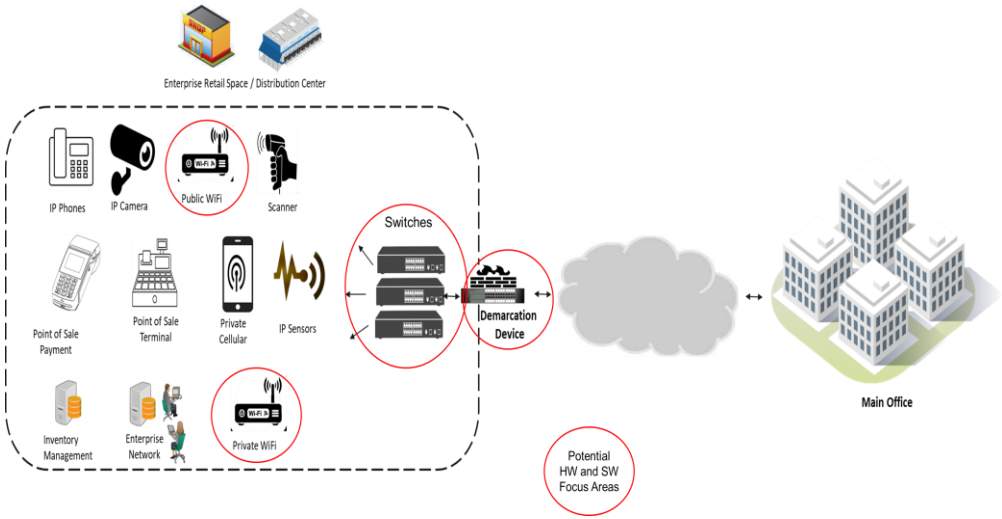
DS1000 Ethernet Access Switch Hardware Specification and Design Package



NETWORKING

Enterprise Connectivity Solutions

- ECS Group launched in 2020 to bring Open Networking solution into the Enterprise market
- Initial focus to be the outlying networks that are connected to the Enterprise Campus
- Many product and contribution opportunities within these Edge networks



Slide OCP Tech Week 2020

Enterprise Connectivity Solutions Contribution

- Celestica contribution of the DS1000 design specification and design files
- Seeking OCP Accepted status
- Product available and shipping today

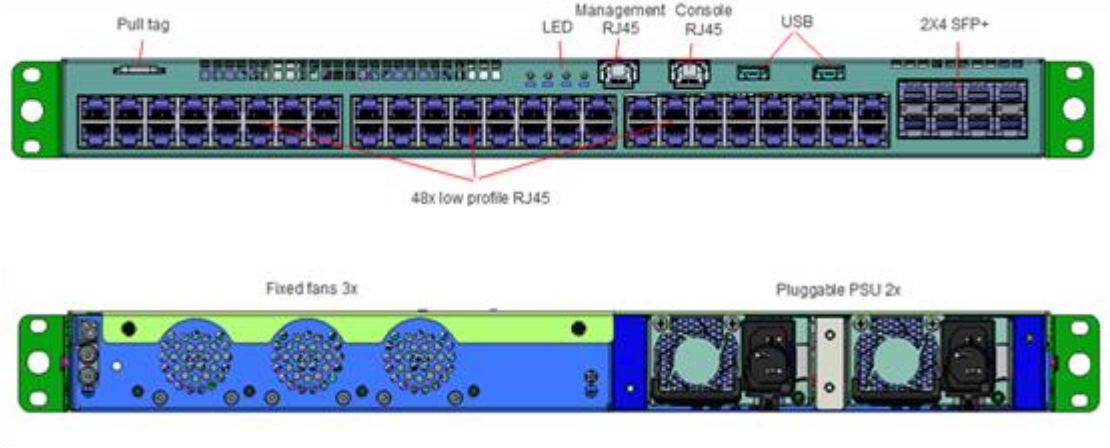
DS1000 ECS 1Gb Enterprise Access Switch

- 1Gb Ethernet switch contribution seeking OCP Accepted status
  - Product being contributed by Celestica
    - First Celestica contribution seeking OCP Accepted status
  - 48 ports of 1Gb Ethernet with 8 x10G uplinks
  - Intel x86 CPU COMe processor module
  - Redundant PSUs and Fans

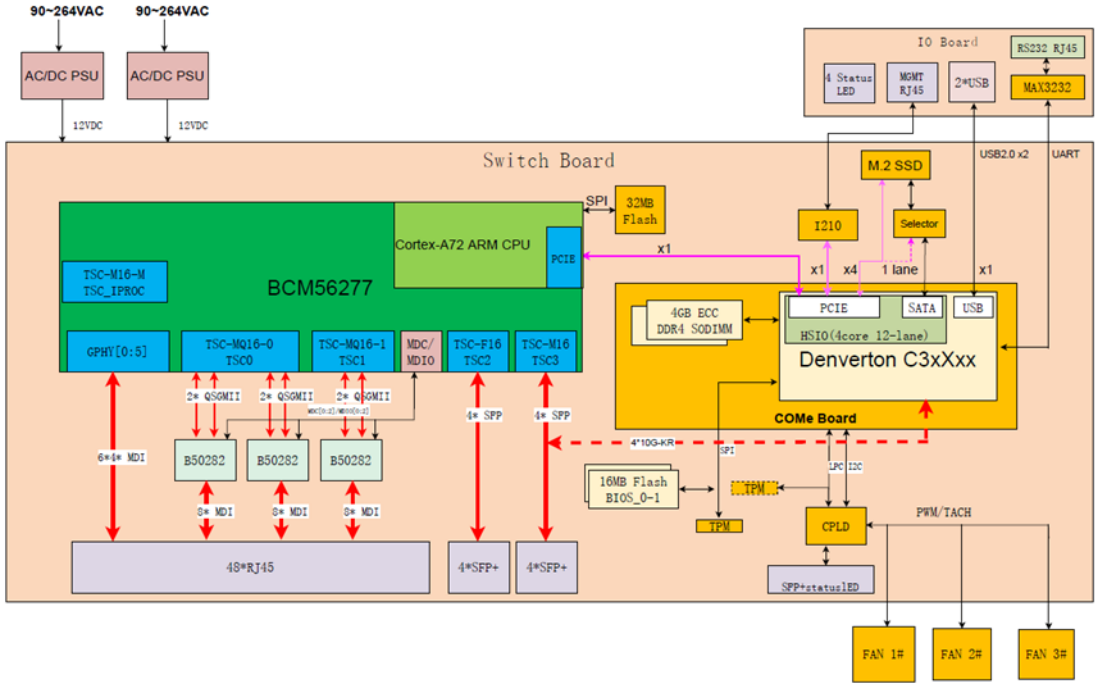


DS1000 ECS 1Gb Enterprise Switch

- 1Gb Ethernet switch seeking OCP Accepted status



DS1000 ECS 1Gb Enterprise Switch



DS1000 ECS 1Gb Enterprise Switch

- What is being contributed?
  - Detailed product specification
  - All mechanical files
  - CPLD Source code
  - Schematics
  - Gerber files
  - Bill of Material
- Software Support
  - ONIE
  - Open Network Linux
  - Redfish
  - SONiC



DS1000 OCP Tenants

2.1. Openness

The DS1000 is a totally open design with a detailed design specification and all design files needed to recreate the design contributed to Open Compute.

2.2. Efficiency

The DS1000 has been designed as a cost effective and energy efficient design consuming under 200W at peak consumption. The power supplies used with the DS1000 support the 80 PLUS platinum power efficiently rating (90+% efficiency)

2.3. Impact

The DS1000 will be the first OCP Accepted design contributed through the Enterprise Connectivity Solutions (ECS) group. This contribution is a useful Ethernet Access switch used in the Enterprise, can be used for follow on derivative works, as well as acting as a catalyst for other contributions to the ECS project.

2.4. Scale

The DS1000, although contributed through the ECS group as an Enterprise switch, may also be used as a rack management switch for the data center environment. This dual use case should lead to high volume deployments achieving significant scale in deployment.

Thank you!



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