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OmniSwitch 6850

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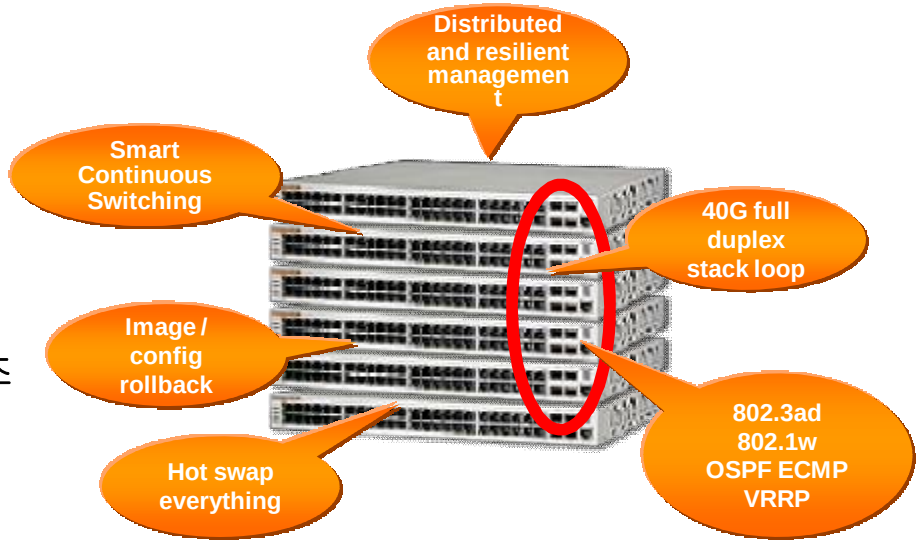
OmniSwitch 6850 Overview

L3 Gig Ethernet Stack

- 24 / 48 ports 10/100/1000 POE 및 non-POE 모델
- 24 ports SFP Fiber 모델(100FX 또는 Gig transceivers)
- 2 x 10G Uplink 제공
- 2 x 10G full-duplex의 Stacking 지원
- 8개까지 Stack 가능

Benefits

- 백본과 동일 AOS로 동일 기능 지원
- Full routing, IPv4 /IPv6
- 교체가능한 Power Supply
- Green IT의 RoHS 및 절전 기능의 친환경 구조



Targeted markets

- SMB Backbone 및 Edge, Aggregation
- Business Ethernet Services, FTTH
- IP convergence in Branch offices















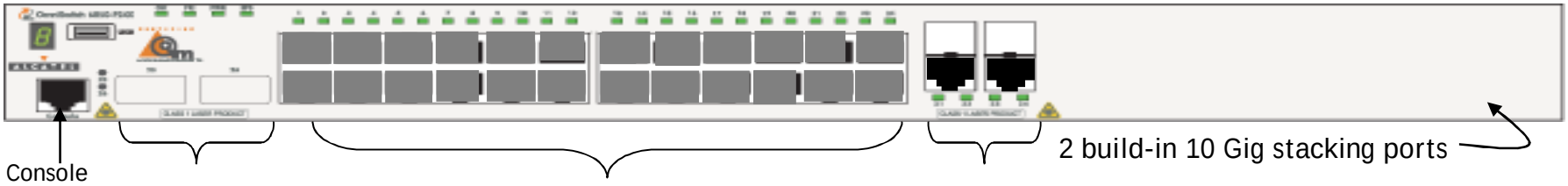
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OS6850 종류 (L3 10/100/1000)

종류	OS6850-24		OS6850-48	
	10 GE 미 지원	10 GE 지원	10 GE 미 지원	10 GE 지원
PoE Model	**OS6850-P24** **OS6850-P24H** **OS6850-P24L** **OS6850-P24LH**	**OS6850-P24X** **OS6850-P24XH**	**OS6850-P48** **OS6850-P48H** **OS6850-P48L** **OS6850-P48LH**	**OS6850-P48X** **OS6850-P48XH**
Non-PoE Model	**OS6850-24** **OS6850-24D** **OS6850-24L** **OS6850-24LD**	**OS6850-24X** **OS6850-24XD** **OS6850-U24X**	**OS6850-48** **OS6850-48D** **OS6850-48L** **OS6850-48LD**	**OS6850-48X** **OS6850-48XD**
스위칭 성능 Throughput	**88 Gbps** **65.5 Mpps**	**128 Gbps** **95.2 Mpps**	**184 Gbps** **137 Mpps**	**224 Gbps** **167 Mpps**

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OmniSwitch 6850-U24X



2 x 10Gig XFP

10Gbase-SR: MMF 300 m

10Gbase-LR: SMF 10 km

10Gbase-ER: SMF 40 km

10Gbase-ZR: SMF 80 km

24 x 100/1000 SFP

- 100Base-FX
- 100Base-LX10
- 100Base-BX10
- 1000BaseT-SFP
- 1000Base-SX
- 1000Base-LX
- 1000Base-LH
- Dual rate optics

2 x 10/ 100/1000 combo

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OmniSwitch 6850 Lite Models

6850Lite PoE models



OS6850-P24L
OS6850-P24LH

- 24 PoE ports
- 20 RJ-45 connectors configurable to 10/100 Base-T
- 4 MiniGBIC Gig combo ports



OS6850-P48L
OS6850-P48LH

- 48 PoE ports
- 44 RJ-45 connectors configurable to 10/100 Base-T
- 4 MiniGBIC Gig combo ports

6850Lite non-PoE models



OS6850-24L
OS6850-24LH

- 24 PoE ports
- 20 RJ-45 connectors configurable to 10/100 Base-T
- 4 MiniGBIC combo ports



OS6850-48L
OS6850-48LH

- 8 PoE ports
- 44 RJ-45 connectors configurable to 10/100 Base-T
- 4 MiniGBIC combo ports

- **S/W License를 통한 1GE 업그레이드 가능**

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OmniSwitch 6855s

1.2



OS6855s의 Positioning



교통/운송

Applications – 철도, 공항, 고속도로, 교통제어 시스템

전력제어

Applications – 송신탑, 전력 변전소내의 시스템 통합 **(IEC 61850 and IEEE 1613I)**



Military

Applications **- Department of Defense: Army, Navy, Air force**

- 충격, 진동, 전자기파의 영향이 많은곳

Carrier/CityNets

Applications - **Metro Ethernet MDU** 설치

- **NEBS/ETSI*, MEF certification**
- **-48VDC**
- **High reliability, advanced QoS**

Industrial

Applications – 열악한 환경의 공장 자동화

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OmniSwitch 6855-14 and 6855-U10

Model description and port options



- OmniSwitch 6855-U10
  - **8 SFP 100FX/1000X ports**
  - **2 RJ45 copper ports**



IEEE 802.3af PoE

- OmniSwitch 6855-14
  - **12 10/100/1000 RJ45 ports**
  - **2 SFPs**
  - **First 4 ports support PoE**
  - **15.4W per port or up to 20W on 3 ports**

Common

§ Convenient 1 RU high design
§ Non-stackable
§ Console port
§ Port and PS LEDs
§ AC and DC power supplies
§ 19” rack or base mounting (2 units in a rack)



§ Fanless design

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OmniSwitch 6855-24 and 6855-U24

Model description and port options



- OmniSwitch 6855-U24
  - **22 SFP 100FX/1000X ports**
  - **2 combo ports: copper or fiber**



- OmniSwitch 6855-24
  - **20 10/100/1000 RJ45 ports**
  - **4 combo ports: copper or fiber**
  - **First 4 ports only support PoE**

Common

§ Convenient 1 RU high design
§ Non stackable
§ Console port
§ Port and PS LEDs
§ AC and DC power supplies
§ 19” rack or base mounting

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OmniSwitch 6855-U24X

Model description and port options

OS6855-U24X connectivity:

- 22 100/1000 Base-X SFP ports (1000Base-T copper SFP)
- 2 combo ports (10/100/1000 BASE-T copper 또는 fiber)
- 2*10G SFP+ **stacking** 또는 **uplinks** 지원

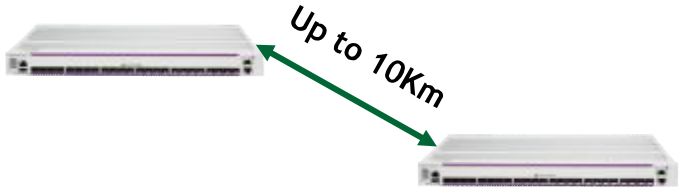


- 4개까지 Stacking Loop 구성 가능
- **SFP+ copper cables을 통한 Stacking Loop구성 가능**
  - iSFP-10G-C30CM ð 30 cm
  - iSFP-10G-C3M ð 3m
  - iSFP-10G-C10M, ð 10m
- 장비간 Remote stacking 구성 가능(10Km)
- 한 Stacking Loop에서 4개의 Unit을 활용한 40Km Cover :
  - iSFP-10G-SR SFP+: up to 300m
  - iSFP-10G-LR SFP+: up to 10 km





Stacking 구성



Environmental & Power:

- Fan less design
- Using heat sinks - lower power consumption, higher reliability (rated at 70C)

Metro Ethernet Services compliance:

- MEF 9 and MEF 14 Certified

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OmniSwitch 6400s

1.3



OmniSwitch 6400 Overview

L2+ Gig Ethernet Stack

- **24 / 48 ports 10/100/1000 POE 및 non-POE 모델**
- **24 ports SFP Fiber 모델(100FX 또는 Gig transceivers)**
- **2 x 10G full-duplex의 Stacking 지원**
- **8개까지 Stack 가능**

OmniSwitch 6400-24



Benefits

- **백본과 동일 AOS로 동일 기능 지원(L2+), basic routing, IPv4 /IPv6**
- **PoE models with hot swappable, replaceable PS**
- **Green IT의 RoHS 및 절전 기능의 친환경 구조**

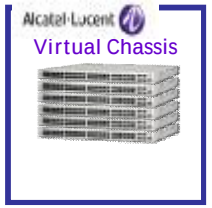
OmniSwitch 6400-P48



Targeted markets

- **Edge workgroups for Small, Mid-sized business**
- **Business Ethernet Services, FTTH**
- **IP convergence in Branch offices**

Innovation















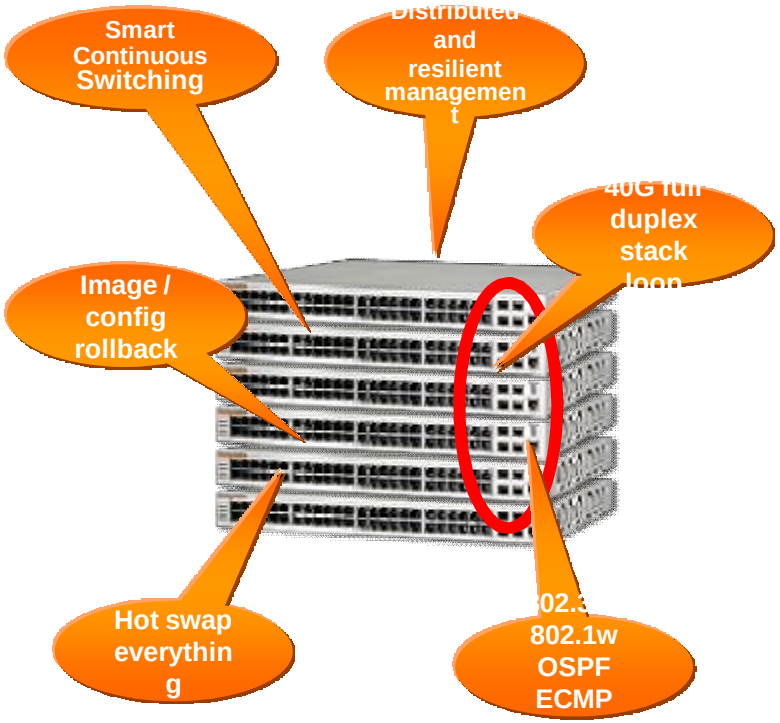
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OS6400 종류 (L2+ 10/100/1000)

종류	OS6400-24	OS6400-48
Non-PoE Model	**OS6400-24** **OS6400-U24**	**OS6400-48**
PoE Model	**OS6400-P24** **OS6400-P24H**	**OS6400-P48** **OS6400-P48H**
스위칭 성능 Throughput	**96 Gbps** **71.4 Mpps**	**192 Gbps** **142.8 Mpps**

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OS66850/6400 - Stacking



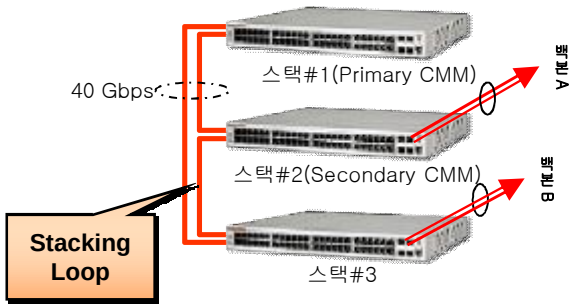
- 각 모델별 스택 가능
- 8개 까지 스택
  - 384 Gigabit ports
  - PoE 와 non-PoE 혼용 사용 가능
  - Virtual Chassis 기능
  - Single IP for Management
  - 스택시 CMM 이중화 자동 구성
  - Smart Continuous Switching, Image Rollback
- 2 10Gigabit stacking links
- Switching Fabric : 88 ~ 224 Gbps
- Throughput : 65.5 ~167 Mpps
- **OS9000**과 같은 **OS** 사용
- **OS9000**과 같은 기능 및 특징 제공

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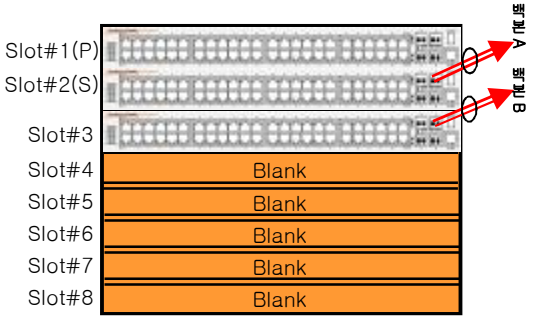
진보된 Workgroup Switch

Virtual Chassis 기능

물리적 구성



논리적 구성



- 8슬롯 샤시와 같은 관리가 가능한 완벽한 스택
  - Full Stack시 320 Gbps의 샤시 장비의 성능 및 기능 제공
  - 간편해진 스택 관리
    - 하나의 IP address로 스택 관리(up to 8 elements)
    - 스택간 Image & configuration 파일의 동기화
    - 각각의 스택은 하나의 슬롯으로 취급되어 관리 용이
    - 각 OS6850/6400 패밀리간 스택가능
  - 강화된 안정성
    - 한 개 이상의 스택시 백업 관리용 모듈(CMM)의 자동구성
    - Smart continuous Switching, Image Rollback 기능
    - 각 스택의 Hot swap 가능(just like an NI on 9000)
    - Stacking Loop를 통한 장비 장애시 이중화 방안 제공
    - 향후 트래픽 증가시 10GE Uplink 사용 가능

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OmniSwitch 6250s

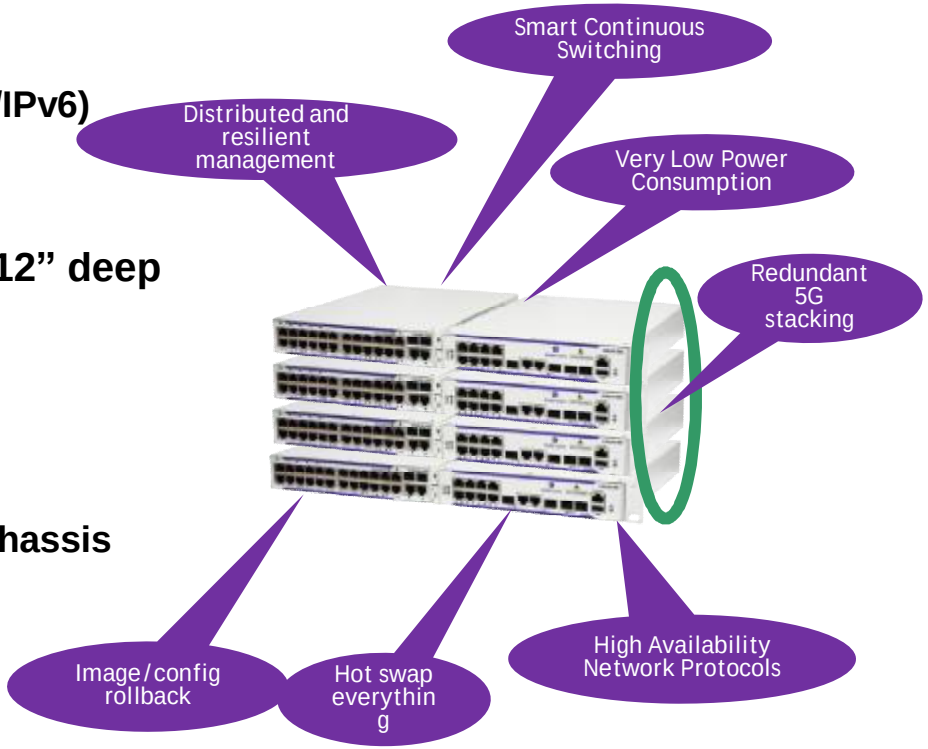
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Value L2+ FE Stack - OmniSwitch 6250

L2+ FE stackable solutions

- **AOS L2+ SW with Management IP (IPv4/IPv6)**
- **4K VLAN, 16k Mac**
- **8 / 24 ports, POE models**
- **1U form factor, 8.5” width, less than 12” deep**
- 최대 **16**개까지 스택 가능
- **5 Gigabit stacking** 포트 제공
- 스위치당 **4 Gig SFP/Combo ports** 제공
- 백본과 동일한 **AOS**로 동일 기능 제공
- 높은 보안성 **: Access Guardian, Virtual chassis**
- **IPv6, 802.1x**
- **IPv6 ACL’s**
- **Basic L3**의 **Static, RIPv1/v2/ng**



Benefits:

- 백본의 **AOS** 기능을 워크그룹에 동일 적용
- **Full L2+ for Ethernet Access services**
- **PoE**의 **802.3at, hot swappable power supplies** 지원
- 친환경 설계 **,** 낮은 전력 소비율 및 저 소음 **(fan less switch)**

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Metro Model



OS6250-8M

- 8 RJ-45 ports 10/100 Base-T
- 2 RJ45/SFP gigabit combo ports
- 2 SFP Gigabit uplinks 또는 Stacking 포트 추가 제공
- Chipset capacity: 10.8 Gbps full duplex/21.6 Gbps aggregated
- Throughput:
  - No stacking: 14.3 Mpps at 9.6 Gbps aggregated
  - With stacking: 23.1 Mpps at 15.6 Gbps aggregated
  - Stacking capacity: 5 Gbps full duplex/10 Gbps aggregated
- Powered by 30W AC (internal)
- No BPS option
- Power consumption: 12.8W



OS6250-24M

OS6250-24MD

- 24 RJ-45 ports 10/100 Base-T
- 2 RJ45/SFP gigabit combo ports
- 2 SFP Gigabit uplinks 또는 Stacking 포트 추가 제공
- Chipset capacity: 12.4 Gbps full duplex/24.8 Gbps aggregated
- Throughput:
  - No stacking: 19 Mpps at 12.8 Gbps aggregated
  - With stacking: 28 Mpps at 18.8 Gbps aggregated
  - Stacking capacity: 5 Gbps full duplex/10 Gbps aggregated
- Powered by 42W AC (internal) / 30W DC (internal)
- External DC BPS available
- Power consumption: 16.2W / 15.89W

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Enterprise Model



- OS6250-24
- OS6250-P24

- 24 RJ-45 / PoE ports 10/100 Base-T
- 2 RJ45/SFP gigabit combo ports
- 24 FE 또는 22 FE/2 GE PoE 구성 가능
- 2 HDMI stacking ports (10Gbps)
- Chipset capacity: 12.4 Gbps full duplex/24.8 Gbps aggregated
- Throughput:
  - No stacking: 13 Mpps at 8.8 Gbps aggregated
  - With stacking: 28 Mpps at 18.8 Gbps aggregated
  - Stacking capacity: 5 Gbps full duplex/10 Gbps aggregated
- Powered by 42W AC (internal) / 225W AC (external)
- External BPS available
- System power consumption: 17.4W / 24.9 W
- PoE power budget: ~180 W
- Maximum per port PoE power: 34 W

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- 3rdParty 보안장비 수용 및 연동
- Security, Network services기본지원

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-Wireless Video Monitoring(CCTV) Solution
-Wireless Smart VOIP Solution
-DID(Digital Signage) Slution
-친환경 태양/풍력 Hybrid LED 가로등 솔루션