

Edgecore



Company Overview

5 September 2022

PLM Team



Штаб-квартира

Основано 1988

в Синчу Сайнс Парк, Тайвань

Отгружено

7 миллионов устройств

в 2021

Годовой рост 25,8%

Развитие

Несмотря на Covid

Выручка

US\$1,9 миллиардов

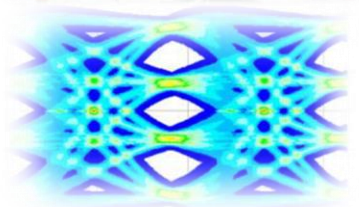
в 2021

Персонал

5223 сотрудников

+1000 инженеров

34-летний опыт в дизайне, производстве и снабжении наиболее известных брендовых OEM



**Разработка
и производство**

*Экспертиза в дизайне
производительного сетевого
оборудования: 400G, 800G,
сопутствующая оптика,
синхронизация.*

www.edge-core.com



Обработка данных

*Масштабируемые крупные
дата центры, такие как
Facebook, отгружено более 8
миллионов 100G портов*



Телеком операторы

*Обеспечение
высококачественными системами
маршрутизации брендовых OEM*



Бизнес компании

*Реализованные проекты сетевого
оборудования для крупнейших
торговых сетей в США.*



Полная линейка платформ коммутации и маршрутизации



100'000+ различных коммутаторов отгружено в 2021



Дочерняя компания Accton с 2004



Продажи и поддержка по всему миру, штаб-квартира в Синчу на Тайване



Гибкие бизнес модели



Лидерство в открытых сетевых решениях дезагрегации



TELECOM INFRA PROJECT

Телеком



Дата центры



Бизнес



Операционные системы



Беспроводные устройства



Что такое дезагрегация?

модульное
разделение
аппаратной и
программной
составляющих
устройств

Blackbox

Решение в одной проприетарной коробке



Whitebox

Раздельное предложение Baremetal + OS



Brilliantbox

Whitebox под брендом софт-вендора



Baremetal

Аппаратная составляющая коммутатора БЕЗ OS:



Доступные операционные системы

Access & Aggregation Routers



System Integrators



Datacenter and Enterprise



BNG



Core Routers



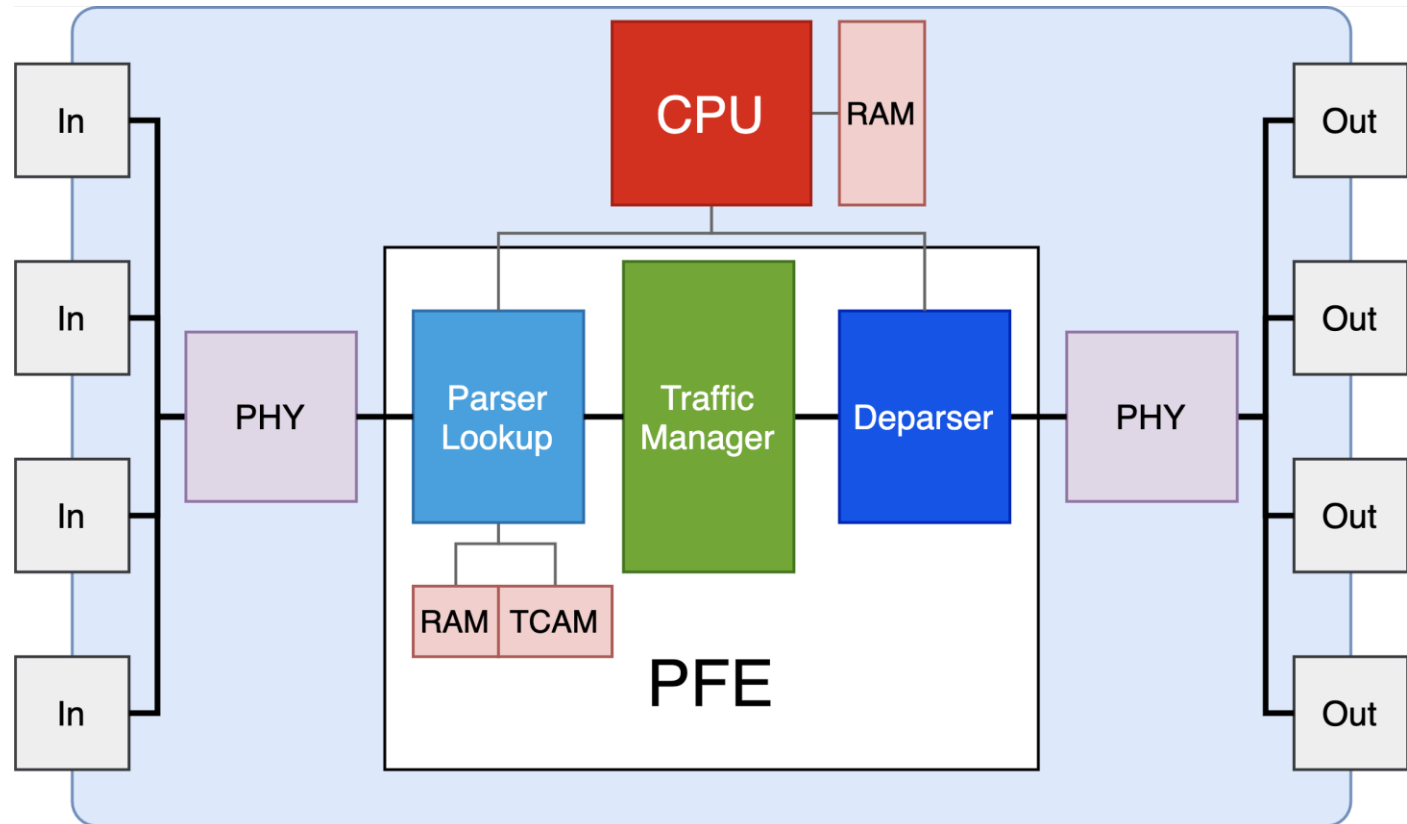
Edgecore NOS (for our Datacenter Platforms)



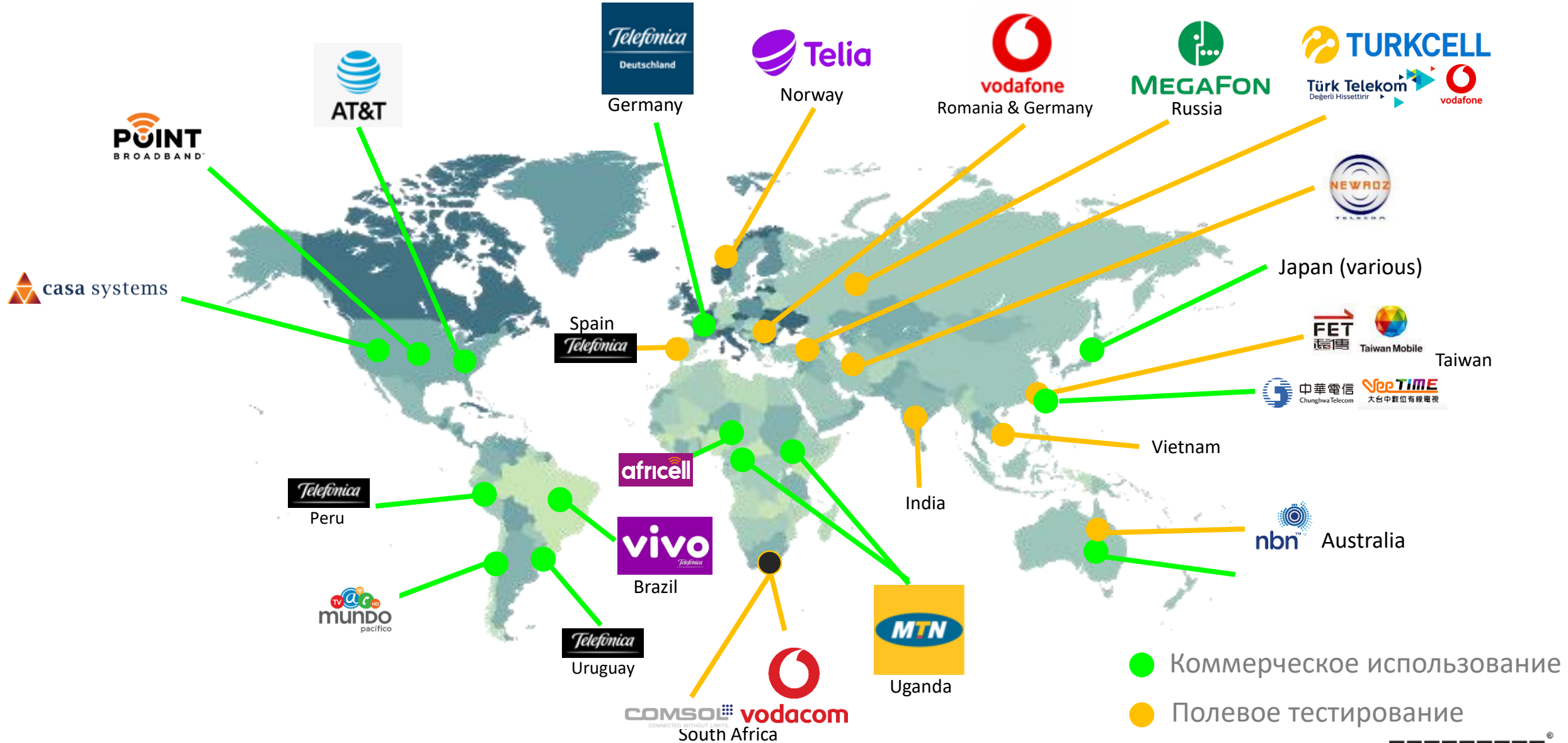
OEM Vendors Software



Что внутри коммутатора?



Реализованные проекты и тестирование



- Коммерческое использование
- Полевое тестирование

Wedge100BF-32X and Wedge100BF-65X

Barefoot Networks Tofino Architecture , Programmable Pipeline and P4 Programming



Available Now



Available Now

Features	
Wedge100BF-32X (QS)	Wedge100BF-65X
32x 100G QSFP28	65x 100G QSFP28
22MB Packet Buffer	
Tofino 1.6T (optional quad pipeline) or 3.2T	
Broadwell-DE, Pentium D-1517 COM-E, BMC	
16GB DRAM, 16GB Flash, 32GB SSD	
1RU, F-B Cooling	

Model: Wedge100BF-32**QS**

Tofino – 3.2T Quad Packet Pipeline ASIC

Intel Xeon D1548 8 Core

AS7726-32X and AS7326-56X

Enhanced 100G and 25G Platforms with Programmable Pipeline
Optimized for Top-of-Rack and Spine



GA Now



GA Now

Features	
AS7726-32X	AS7326-56X
32x 100G QSFP28 + 2x 10G	48x 25G SFP28 + 8x QSFP28 + 2x10G
XGS Trident3.X7 BCM56870 3.2Tb	XGS Trident3.X7 BCM56873 2.0Tb
32MB Packet Buffer	
Xeon D-1518 4-Core 2.2GHz	
16GB DRAM, 32MB Flash, 64GB SSD	
1RU, F-B and B-F Cooling Options	

MINIPACK AS8000

Industry's First 400G Open Network Switch
Optimized for Spine Applications



GA Now

Features

- 8 Slot Small Form-Factor
- 16x 100G QSFP28 / 8x200G QSFP-56 or 4x 400G QSFP-DD
- Broadcom XGS Tomahawk III BCM56890 12.8Tb
- 64MB Packet Buffer
- Xeon D-1527 processor 4-Core 2.2 GHz
- 32GB DRAM, 256MB Flash, 32GB SSD
- AC and DC Power Options
- 4RU

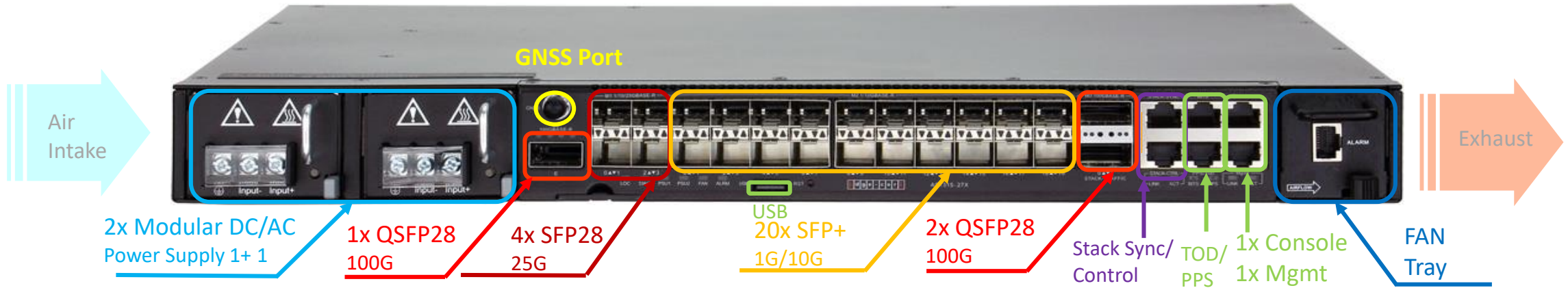
Trident 4 SMB Version– Concept GA 2H-2020
Programmable Pipeline
VXLAN Support
Inbound Network Telemetry

CSR310

AS7315-27X

Broadcom Qumran-AX

300Gbps



Features	
Port Interfaces	3x 100G (QSFP28), 4x 25G (SFP28), 20x 1G/10G (SFP+)
ASIC / Capacity	Broadcom Qumran-AX / 300Gbps
CPU	Intel ATOM C3508 4 Cores - COMe Express Module
Memory / Storage	2x 8GB DDR4 / SSD M.2 32G
Operating Temp	Industrial -40°C to 65°C
Dimensions	440mm x 300mm x 44mm
PSUs / FANs	Modular 1+1 AC or DC PSUs / Fan Tray Side to Side Airflow

Highlights

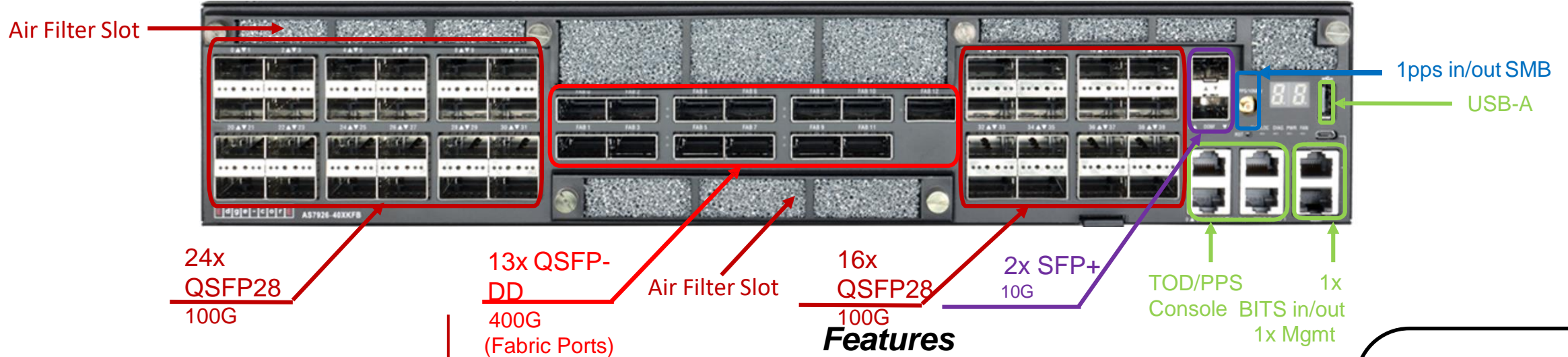
- 1588v2 PTP (Class C)
- Stackable Model
- Side to Side airflow
- 100G & 25G ports
- 2x 100G Fabric ports
- GNSS Supported

COR550

AS7926-40XKFB

Broadcom Jericho-2

4.0Tbps



24x
QSFP28
100G

13x QSFP-
DD
400G
(Fabric Ports)

16x
QSFP28
100G

2x SFP+
10G

TOD/PPS
Console
BITS in/out
1x Mgmt

Features

Port Interfaces	13x 400G (QSFP-DD) (Fabric Ports) 40x 100G (QSFP28), 2x10G (SFP+)
ASIC / Capacity	Broadcom Jericho-2 / 4.0Tbps / External TCAM KBP16K
CPU	Intel Broadwell-DE 8-core 2.0GHz with BMC
Memory / Storage	32GB DDR4 / 128GB SSD
Operating Temp	0°C to 55°C (can be NEBS temperature compliant, with air filters)
Dimensions	440mm x 635mm x 87mm (2RU)
PSUs / FANs	Modular 1+1 AC or DC PSUs / 4+1 Modular Fans Front to Back Airflow

Highlights

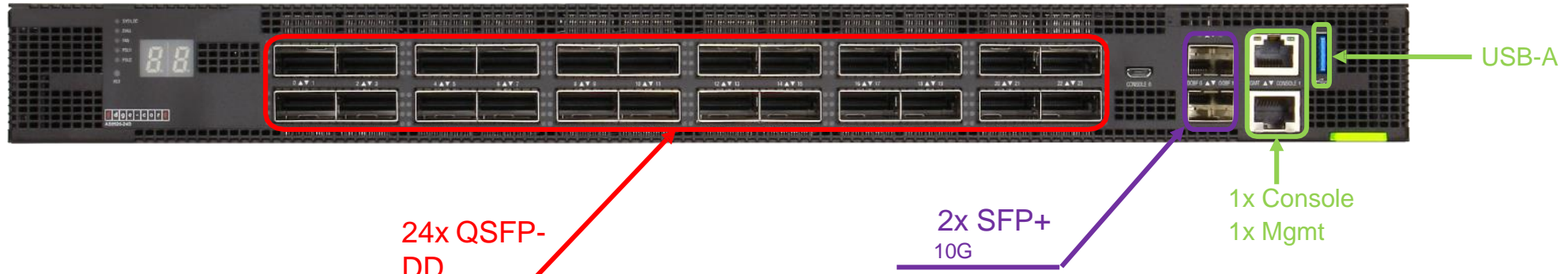
- 400G Fabric ports
- 40x 100G ports
- Chassis Timing
- No Retimer
- Only 635mm depth
- Lower Power
- Fewer components
- NEBS compliant

COR580

AS9926-24DB

Broadcom Ramon

9.6Tbps



24x QSFP-
DD
400G

2x SFP+
10G

1x Console
1x Mgmt

USB-A

Features

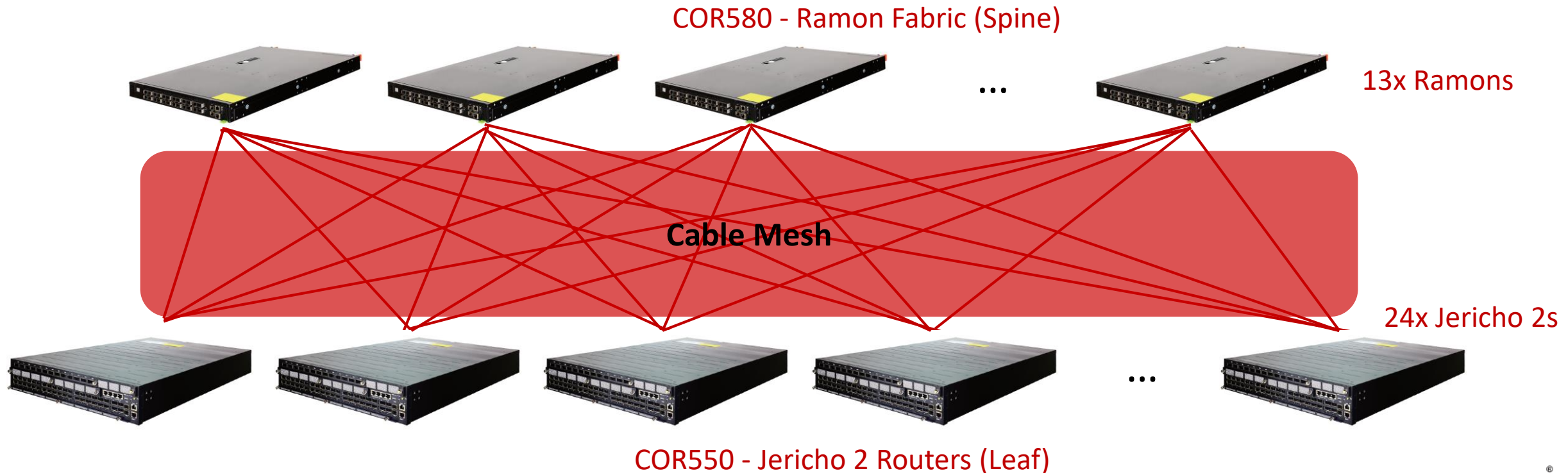
Port Interfaces	24x 400G (QSFP-DD), 2x10G (SFP+)
ASIC / Capacity	Broadcom Ramon / 9.6Tbps
CPU	Intel Broadwell-DE 8-core 2.0GHz with BMC
Memory / Storage	32GB DDR4 / 128GB SSD
Operating Temp	5°C to 40°C
Dimensions	438.4mm x 536mm x 43.1mm (1RU)
PSUs / FANs	Modular 1+1 AC or DC PSUs / 4+1 Modular Fans Front to Back Airflow

Highlights

- 400G Fabric
- Lower Power
- Fewer components
- NEBS compliant

COR550 + COR580 - Distributed & Disaggregated Chassis

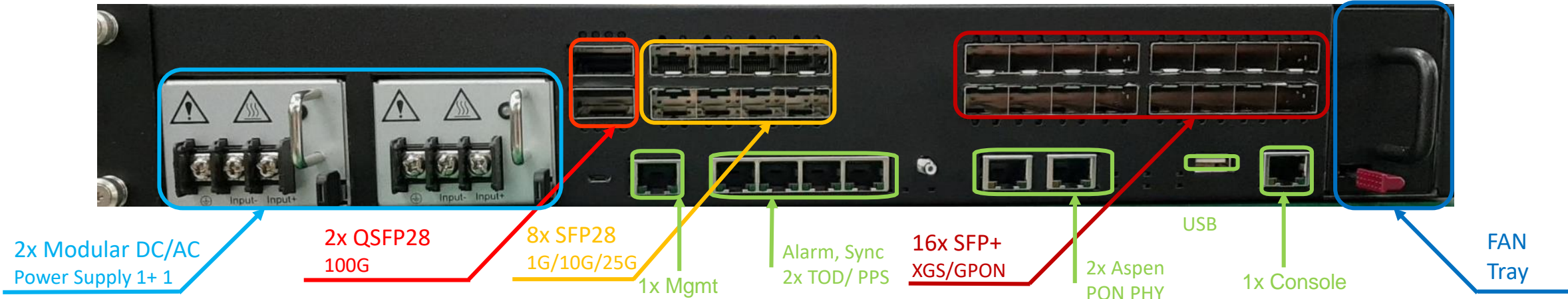
- Each COR550 (Jericho2) has 13x 400G fabric ports, allowing a maximum of 13x COR580 (Ramon) spine switches
- Each COR580 has 24x 400G fabric ports, allowing a maximum of 24x COR550 leaf routers
- Largest configuration: **24x COR550 leaves and 13x COR580 spines**
 - Each Leaf has 40x100GE front panel NIF ports for a total capacity of 960x 100GE NIF ports
 - **96 Terabit of front panel connectivity** in a single unified chassis



ASCvOLT16

Broadcom Aspen and Qumran-AX





















300Gbps



Features	
Port Interfaces	2x 100G (QSFP28), 8x 25G/10G (SFP28), 16x Combo XGS/GPON (SFP+)
ASIC / Capacity	Broadcom Aspen & Qumran AX / 300Gbps
CPU	Intel Denverton C3708 8-core 1.7GHz
Memory / Storage	16GB DDR4 / 32GB SSD
Operating Temp	-40°C to 65°C
Dimensions	440mm x 245mm x 44mm (1RU)
PSUs / FANs	Modular 1+1 AC or DC PSUs / Fan Tray Side to Side Airflow

- ### Highlights
- 16 Combo Ports
 - XGS or GPON
 - 100G & 25 Uplinks
 - 32 PON steams
 - Ethernet Aggregation

Web Smart & L2+ Access Switch

	Web Smart (All 1G)	All 1G	1G + 10G uplink	1G Fiber + 10G uplink	10G + 40G uplink
48 port	 ECS2100-52T	 ECS4100-52P  ECS4100-52T	 ECS4120-52T	 ECS4530-54CSFP-DC-I  ECS4530-54CSFP	
16/24 port	 ECS2100-28PP	 ECS4100-28P		 ECS4120-28Fv2-I	 ECS5520-18T
	 ECS2100-28P	 ECS4100-28T	 ECS4120-28T	 ECS4120-28Fv2	 ECS5520-18X
	 ECS2100-10P	 ECS4100-12PH			
10/12 port	 ECS2100-10PE	 ECS4100-12T			
	 ECS2100-10T				

370W

370W

190W












200W

125W

180W

65W

Full L3 Aggregation Switch

	1G + 10G uplink	1G Fiber + 10G uplink	10G + 40G uplink	10G + 40G uplink	100G
48 port	<p>780 W</p>  <p>ECS4620-52P</p>  <p>ECS4620-52T</p>		 <p>AS5812-54T-EC</p>  <p>AS5812-54X-EC</p>	 <p>AS5835-54X-EC</p>	 <p>AS7712-32X-EC</p>
24 port	<p>410 W</p>  <p>ECS4620-28P</p>  <p>ECS4620-28T</p>	 <p>ECS4620-28F-2AC</p>  <p>ECS4620-28F</p>	 <p>ECS5620-18X</p>		
12 port					

TIP Wi-Fi



Develop, deploy and monetize cost-effective plug and play open source powered Wi-Fi networks, collaborating across Service providers, infrastructure and application developers, and community connectivity stakeholders.



• <https://telecominfrastructure.com/wifi/>

- The Wi-Fi Project Group is developing a disaggregated End-to-End Wi-Fi solution, consisting of access points (APs) and a cloud-native control/management plane which interfaces to mobile operators' core networks to enable mobile data offload. Our design is being driven by ease of operation and low total cost of ownership (TCO).

Wi-Fi5 2x2 Indoor AP: ECW5211-L

Wi-Fi	11ac wave2
Radios	2.4 GHz, 5 GHz, BLE
MIMO	2x2:2
Data Rate	Up to 300 Mbps (2.4 GHz), Up to 867 Mbps (5 GHz)
PoE Specification	802.3af
Uplink Ports	1 x GbE (PoE)
LAN Ports	1 x GbE
Other Ports	1 x USB 2.0
Output Power	2.4GHz & 5GHz: 21dBm
Antenna	Built-in antenna, 3 dBi (2.4 GHz), 5 dBi (5 GHz), 3 dBi (BLE)
ESSIDs	32
Max. Power Consumption	9W
Mounting	Wall / Ceiling Mount
Dimensions (H x W x D; cm)	14.7 x 14.7 x 3.5
Weight	0.36 kg



Wi-Fi5 4x4 Indoor AP: ECW5410-L

Wi-Fi	11ac wave2
Radios	2.4 GHz, 5 GHz, BLE
MIMO	4x4:4
Data Rate	Up to 600 Mbps (2.4 GHz), Up to 1,733 Mbps (5 GHz)
PoE Specification	802.3at
Uplink Ports	1 x GbE (PoE)
LAN Ports	1 x GbE
Other Ports	1 x RJ45 Console Port, 1 x USB 2.0
Output Power	2.4GHz & 5GHz: 24dBm
Antenna	Built-in antenna, 3 dBi (2.4 GHz), 5 dBi (5 GHz), 3 dBi (BLE)
ESSIDs	32
Max. Power Consumption	22.5W
Mounting	Wall / Ceiling Mount
Dimensions (H x W x D; cm)	19.0 x 19.0 x 3.3
Weight	0.61 kg



Wi-Fi5 2x2 Outdoor AP: OAP100

Wi-Fi	11ac wave2
Radios	2.4 GHz, 5 GHz, BLE, GPS, LTE (PCI-E; Optional)
MIMO	2x2:2
Data Rate	Up to 300 Mbps (2.4 GHz), Up to 867 Mbps (5 GHz)
PoE Specification	802.3at
Uplink Ports	1 x GbE (PoE)
LAN Ports	1 x GbE, (802.3af downlink PoE)
Other Ports	1 x RJ45 Console Port / 1 x Vent
Output Power	2.4GHz & 5GHz: 24dBm
Antenna	- Option I: 2 x Built-in Omni (2.4GHz), 2 x Azimuth & Elevation 30° (5GHz) - Option II: 4 x Azimuth 90° & Elevation 30° (2 x 2.4GHz, 2 x 5GHz), 2 x External N-Type, Built-in Antenna for BLE, Built-in Antenna for GPS, Female Connectors on OAP100 (LTE)
ESSIDs	32
Max. Power Consumption	27.1W
Mounting	Pole Mount
IP Rating	IP68
Dimensions, (H x W x D; cm)	45.0 x 23.0 x 7.0
Weight	2.10 kg



Wi-Fi6 2x2 Indoor AP: EAP101

Wi-Fi	11ax
Radios	2.4GHz, 5GHz, BLE/Zigbee
MIMO	2x2:2
Data Rate	Up to 574 Mbps (2.4 GHz), Up to 1,200 Mbps (5 GHz)
PoE Specification	802.3at
Uplink Ports	1 x 2.5GbE (PoE)
LAN Ports	2 x GbE
Other Ports	1 x RJ45 Console Port, 1 x USB 2.0
Output Power	2.4GHz & 5GHz: 26dBm
Antenna	Built-in antenna, 4.8 dBi (2.4 GHz), 6 dBi (5 GHz), 4.6 dBi (BLE/Zigbee)
ESSIDs	32
Max. Power Consumption	22.4W
Mounting	Wall / Ceiling Mount
Dimensions (H x W x D; cm)	19.5 x 19.5 x 3.9
Weight	0.42kg




Wi-Fi6 4x4 Indoor AP: EAP102


Wi-Fi	11ax
Radios	2.4GHz, 5GHz, BLE
MIMO	4x4:4
Data Rate	Up to 574 Mbps (2.4 GHz), Up to 2,400 Mbps (5 GHz)
PoE Specification	802.3at
Uplink Ports	1 x 2.5GbE (PoE)
LAN Ports	1 x 2.5GbE
Other Ports	1 x RJ45 Console Port, 1 x USB 2.0
Output Power	2.4GHz:24dBm, 5GHz: 26dBm
Antenna	Built-in antenna, 5 dBi (2.4 GHz), 5 dBi (5 GHz), 3.8 dBi (BLE)
ESSIDs	32
Max. Power Consumption	25W
Mounting	Wall / Ceiling Mount
Dimensions (H x W x D; cm)	20.1 x 19.5 x 4.1
Weight	0.61kg



THANK YOU

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