Education solutions
product guide—India and SAARC

Elevating learning experiences with CommScope Education solutions

COMMSCOPE®

Table of contents

Why choose CommScope for your school project?

As your school continues its digital transformation to 1:1 mobile learning, CommScope helps you address the top three challenges of school IT: network scaling, securing student data privacy, and network reliability for digital instruction.

Our goal is to help you provide a safe and reliable learning environment at an affordable price.

The digital classroom of tomorrow promises an outstanding education. Is your network ready?

The classroom of tomorrow promises an outstanding education. Blended learning, digital curriculum and other modern learning models can better engage students and help educators be more effective.

With this digital transformation, lesson plans now depend on consistent, reliable connectivity to the school's network. Instead of leaving tools locked in the classroom, students walk in the door with their laptops, tablets or other devices every morning, and take them home with them each night.

As such, there are three major concerns currently facing school IT administrators.

NETWORK AND BROADBAND SCALING	TRANSITION TO DIGITAL LEARNING	SECURITY AND STUDENT DATA PRIVACY
The top priority for information technology is broadband and network capacity.	**The transition from text-based curricula to blended learning.**	**Facing the task of protecting student data from misuse or breach.**
More devices are coming onto the network, stretching the limits of aging infrastructure. In 2018 it was recommended a minimum of 3,000 Mbps bandwidth per 1,000 students. Plan for growth, not rip-and-replace.	Avoid network down time. Even a three-minute interruption can disrupt a 50-minute class.	Governments world-wide are drafting legislation or enacting laws to protect student data.

Education solutions

Expectations for your communications network have never been higher, as both students and teachers engage in new ways. To keep up with this demand, the communication infrastructure has to be up to the task. That's where CommScope solutions can help your communications network do more—and do it better.

CommScope's communications infrastructure solutions are built to make your communications network simpler to deploy and manage, improve its reliability, and give it the adaptability to evolve as student and teacher requirements change.

Our Education Network solutions portfolio covers every connection and cable, from copper and fiber structured cabling to IoT access networks, unified Wi-Fi, Wi-Fi 6E, switching and intelligent automated infrastructure management.

CommScope's Network solution products are easy to deploy, more reliable and more adaptable. CommScope can power the future of your school's infrastructure. We have the largest trained installation partner network throughout India and SAARC. These installation partners can design, install and implement your every network requirement. We are the only vendor who can fully support your entire communications network.

PartnerPRO®
NETWORK

CommScope celebrates a culture of idea generation, exploration and teamwork
The PartnerPRO® Network is strong and growing stronger every day because we share your passion for delivering exceptional value. Like you, we are committed to:

| Collaboration	between partner, CommScope and customer—because sharing the goal of SOLVING A PROBLEM is the best way to bring CommScope solutions to market.
Competitive advantage	as the foundation of a truly first-in-class, globally consistent network of the best solutions and expertise available.
Success for all	as we work together for better results for the customer, and better partnership with the experts we count on to deploy our solutions.

FUTURE PROOF

Our ICX® access switch uplinks can be upgraded without replacing the switch. We also support stacking up to 12 switches, while Campus Fabric supports up to 36 switches with a single point of management. Our flexible switch deployment options include standalone, stacking and Campus Fabric (with the same switches). With RUCKUS® Cloud, you can easily add in RUCKUS Wi-Fi APs and switches, or internet of things (IoT) infrastructure. For the latter two, simply plug into pre-existing RUCKUS Wi-Fi APs—without having to rip and replace!

WIRED AND WIRELESS NETWORK MANAGEMENT

With RUCKUS SmartZone network controllers, it is possible to manage both your wired and wireless network using a single network element. SmartZone network controllers simplify network setup and management, enhance security, minimize troubleshooting and ease upgrades, and ensure provisioning consistency across networks built on RUCKUS access points and switches.
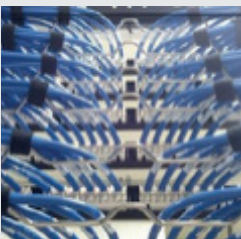
HIGH-PERFORMANCE NETWORK CABLING

The foundation for a high-performance network is the structured cabling infrastructure. This is required to support your networks' bandwidth, capacity and power requirements. CommScope Category 6A copper cabling ensures your structured cabling infrastructure is ready and able to support 10-gig speeds and high-powered PoE. CommScope's fiber solutions also provide the scalable bandwidth you need for your network backbone and for high-performance applications in education, VR and Wi-Fi 6 APs.

The PartnerPRO Network structure provides education customers access to the right partner based on your needs.

Our structure allows our partners to select the right relationship with CommScope based on their business model and expertise.

CommScope's relationship model

Distributors: Organizations focused on the complex logistics of stocking and distributing CommScope's solutions around the globe. Our network helps customers stay on schedule and on budget.

Installers: Local experts who understand the regional specifications that impact your network. Our training and certification programs provide assurance that customers will receive consistent, reliable service.

Integrators: Organizations that integrate our solutions with other technology to address the network owner's complex issues.

Consultants: Help ensure every aspect of the customer's network is designed for excellent quality and performance.

CommScope has built programs around our PartnerPRO Network to support our market segment solutions. Our programs are designed to help our partners stand out and offer more value to our joint customers like education.
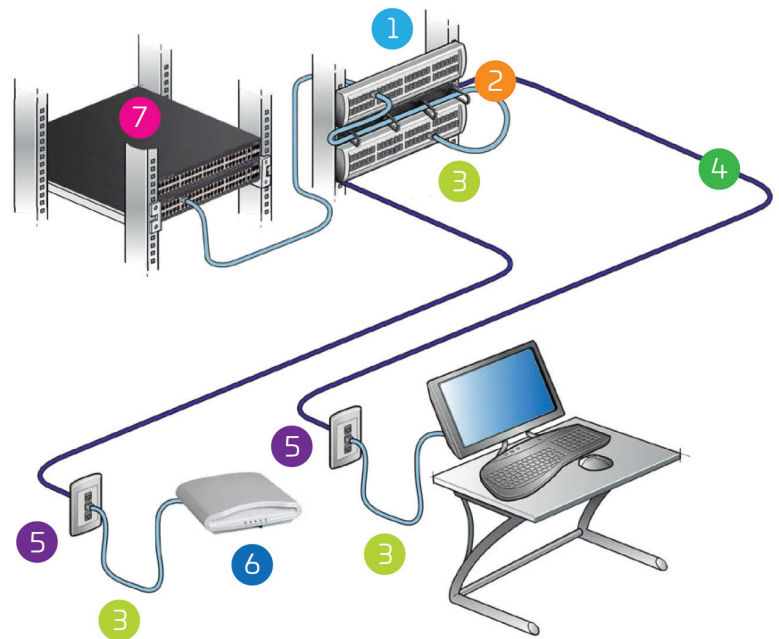
NETWORK TERMINOLOGY
Category 6A—Supports network data rates of 10 Gbps up to 100 meters
AP's—Wi-Fi access points
ICX—Network switches
Patch cords—Used to plug active devices into your network equipment

PartnerPRO®

N E T W O R K

CommScope designs and manufactures the gold standard for structured cabling. From twisted-pair copper cabling to multimode and singlemode fiber optics, our cables meet or exceed all published standards. In 2019, RUCKUS became part of the CommScope family, creating a communication company with unmatched capabilities.

CommScope component part list

		Description	RUCKUS® networking Product number	Infrastructure connectivity Product number
Copper patch panels	1	-Straight -Angled		760207274 760207290
Cable management	2	Horizontal 1RU 4 ring (black)		760038240
Copper patch cords	3	1 metre UTP patch cord—blue 2 metre UTP patch cord—blue 3 metre UTP patch cord—blue		CPCSSZ2-02M001 CPCSSZ2-02M002 CPCSSZ2-02M003
Copper cable	4	4 pair unshielded (UTP) -White		760107318
Outlet	5	RJ45 outlet -Yellow -Blue		760092387 760092452
Wi-Fi AP's	6	Wi-Fi6 wireless access points	R650 mid-range Wi-Fi 6 AP R750 high-end Wi-Fi 6 AP	
ICX switches	7	Network switches	ICX 7150 ICX 7450	

CommScope Financial Services

CommScope Financial Services is designed to help customers future-proof their networking connectivity solutions by enabling investments in the latest technology through multiple financing options, including leasing, financing, and rental solutions. The service enables CommScope to provide the technology solutions and total cost of ownership benefits that align with our customers' top financial metrics and business priorities.

Our customers are always seeking ways to ease their upfront capital expenditure (CapEx) yet remain competitive through new technology investments. CommScope created its Financial Services program to address this need by helping customers and partners acquire the latest networking hardware, software and professional services with minimal upfront capital investment. The benefits of using CommScope Financial Services as part of your purchasing cycle include:

- Acquisition of hardware, software and partner professional services without upfront capital investment (OpEx model)

- 100 percent turnkey financing solution for all hard and soft costs

- Existing bank funding lines remain intact

- Working capital available for your core business

- Fixed and predictable monthly payments

- Flexible end-of-term options

CommScope Financial Services customers can be approved for a financing solution of up to 100 percent of all hard and soft costs, not just hardware components. This gives customers and partners the ability to keep existing bank funding lines intact, diversify their funding base and free up working capital for core business goals.

Category 6$_A$ U/UTP cable

MID part number	Description
760107318	GigaSPEED® X10D ® 3091B ETL verified LSZH Category 6A U/UTP cable, white jacket, 4 pair count, 1,000 ft (305 m) length, WE TOTE® box

Discrete Patch Panel Complete Kit

Angled Patch Panel Complete Kit

Category 6$_A$ U/UTP patch panel

MID part number	Description
760207274	Discrete Distribution Module Panel, M-series, UTP, 1U, 24 port
760207290	Angled Discrete Distribution Module Panel, M-series, UTP, 1U, 24 port

GigaSPEED X10D MGS600 Series
information outlet, yellow

GigaSPEED X10D MGS600 Series
information outlet, blue

Category 6$_A$ U/UTP information outlets

MID part number	Description
760092387	GigaSPEED X10D MGS600 Series information outlet, yellow
760092452	GigaSPEED X10D MGS600 Series information outlet, blue

CommScope® Copper solutions
Category 6_A U/UTP products

Category 6_A U/UTP patch cord

Category 6_A U/UTP patch cords	
MID part number	Description
CPCSSZ2-02F003	blue Category 6A LSZH patch cord—1 meter
CPCSSZ2-02F007	blue Category 6A LSZH patch cord—2 meter
CPCSSZ2-02F015	blue Category 6A LSZH patch cord—5 meter
CPCSSZ2-02F030	blue Category 6A LSZH patch cord—10 meter
CPCSSZ2-09F003	yellow Category 6A LSZH patch cord—1 meter
CPCSSZ2-09F007	yellow Category 6A LSZH patch cord—2 meter
CPCSSZ2-09F015	yellow Category 6A LSZH patch cord—5 meter
CPCSSZ2-09F030	yellow Category 6A LSZH patch cord—10 meter

Cat 6_A U/UTP slimline patch cord available upon request

CO199K2—MiNo6_A Series Category 6_A U/UTP reduced diameter LSZH-CM patch cords
Perfect for cross connects, workstations or racks with higher density and/or limited space Small-diameter unshielded twisted-pair patch cords (4.95 mm) that offer flexibility, durability and reliability Colors available (black, blue, green, gray, orange, red, spring green, violet, white, yellow)

CommScope® Complementary
Copper solutions

1RU Cable Manager Metal Finger Duct

1RU 4 Ring Metal Patch Cord Minder

2RU 4 Ring Metal Patch Cord Minder

Horizontal cable management	
MID part number	Description
Loop style	
760038240	1RU 4 Ring Metal Patch Cord Minder—black—80 mm loops. includes cage nuts
760038257	2RU 4 Ring Metal Patch Cord Minder—black—80 mm loops. includes cage nuts
Finger duct style, with cover	
760072942	1RU Cable Manager Metal Finger Duct 75 mm
760072959	2RU Cable Manager Metal Finger Duct 75 mm

Reduced footprint 1- and 2-port surface mount modules

Standard footprint 2- to 6-port surface mount modules

Surface mount boxes	
MID part number	Description
107984015	Single-port surface mount box—white
107984056	Two-port surface mount box—white
107952459	Four-port surface mount box—white

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| Face plates	
MID part number	Description
760200428	Single-port square face plate'
760200451	Two-port shuttered square face plate
760200469	Four-port shuttered square face plate

CCA connector only

CCA connector with Category 6 /Category 6_A cable assembly

Ceiling Connector Assembly (CCA)	
Field-terminated plug connector for modified permanent link	
MID part number	Description
NOTE: CCA should be wired with T568B method to match patch cord wiring	
760234921	CCA connector only (no patch cable). Use with Cat 5e/6/6_A UTP patch cords cut in half
760235590	CCA connector with Cat 6_A LSZH UTP RJ45 patch cord. 450 mm long—white
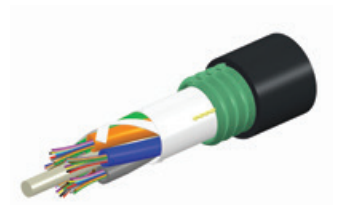
| Fiber cables/buried	
MID part number	Description
760249371	OS2, LSZH, 6 core, suitable for indoor application
760249373	OS2, LSZH, 12 core, suitable for indoor application
760249374	OS2, LSZH, 24 core, suitable for indoor application
760249365	OM4, LSZH, 6 core, suitable for indoor application
760249367	OM4, LSZH, 12 core, suitable for indoor application
760249368	OM4, LSZH, 24 core, suitable for indoor application
760249719	OS2, armored, 6 core, suitable for indoor or outdoor application
760249720	OS2, armored, 12 core, suitable for indoor or outdoor application
760249721	OS2, armored, 24 core, suitable for indoor or outdoor application
760249725	OM4, armored, 6 core, suitable for indoor or outdoor application
760249726	OM4, armored, 12 core, suitable for indoor or outdoor application
760249727	OM4, armored, 24 core, suitable for indoor or outdoor application

**Other cables available on request**

760242455

760242475

760242476

| AGILE G2 rackmount fiber trays - 19 in	
Fixed and sliding drawers	
MID part number	Description
These enclosures are best suited for splice solutions	
760242455	1U sliding drawer panel, accepts (4) G2 modules or adapter packs, up to 48 DPX LC or 32 MPO ports
760242475	1U fixed drawer panel, accepts (4) G2 modules or adapter packs, up to 48 DPX LC or 32 MPO ports
760242476	1U sliding enclosed panel, accepts (4) G2 modules or adapter packs, up to 48 DPX LC or 32 MPO ports
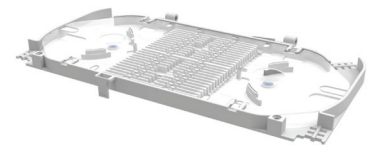
G2 splice tray

Splice tray for G2 fiber trays	
MID part number	Description
760241378	Fiber-optic splice tray kit, stackable, 48-fiber capacity
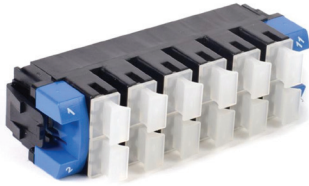
SC singlemode
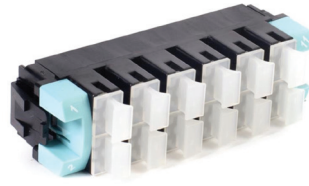
SC OM4

LC singlemode

LC OM4

| G2 Connectorised adapter packs	
MID part number	Description
Singlemode	
760135087	G2 singlemode distribution adapter pack 12F SC blue
760230946	G2 singlemode distribution adapter pack 12F LC blue
760216762	G2 singlemode distribution adapter pack 24F LC blue
760135095	G2 singlemode distribution adapter pack 12F SC APC green
760230961	G2 singlemode distribution adapter pack 12F LC APC green
760216770	G2 singlemode distribution adapter pack 24F LC APC green
Multimode	
760134551	G2 multimode distribution adapter pack 12F SC aqua
760230938	G2 multimode distribution adapter pack 12F LC OM4 aqua
760216754	G2 multimode distribution adapter pack 24F LC OM4 aqua
760109462	G2 mod panel blank adapter pack, 4 panels
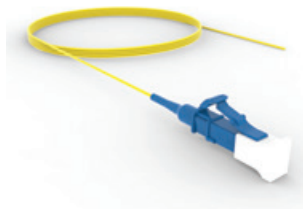
OS2 pigtail

OM4 pigtail

Fiber-optic pigtails	
MID part number	Description
FBXLCUC11-MXF003	OM4 LC pigtails aqua color—3 feet
FBWLCUC11-JXF003	OS2 LC pigtails yellow color—3 feet
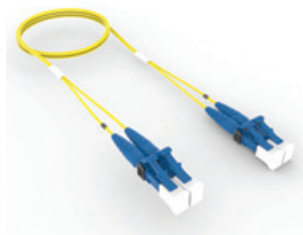
OS2 Patch Cord
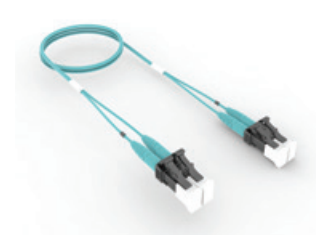
OM4 Patch Cord

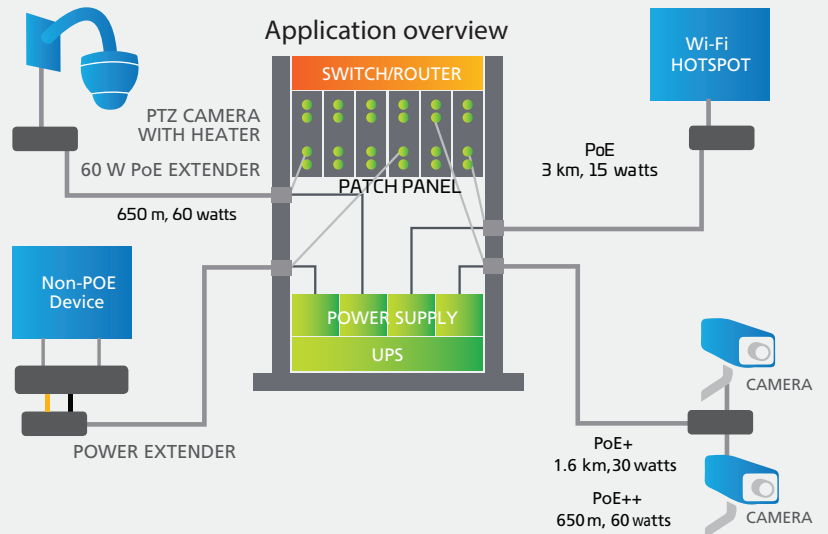| Fiber-optic patch cords	
MID part number	Description
FFXLCLC42-MXM003	OM4 LC-LC aqua patch cord—3 meter
FFWLCLC42-JXM003	OS2 LC-LC yellow patch cord—3 meter

Powered Fiber Cable System
Providing power and communication to remote devices

COMMSCOPE®

Application overview

- Complete power and data system for IP devices
- Low-voltage power provided by centralized source/backup UPS
- Up to 32 devices simultaneously from one power supply
- Extends PoE distance up to 3 km
- Low-cost installation and setup
- Ideal for campus environments, airports, parking areas, stadiums, small cell base stations

Application overview

PTZ CAMERA WITH HEATER
60 W PoE EXTENDER
650 m, 60 watts

SWITCH/ROUTER
PATCH PANEL
POWER SUPPLY
UPS

Wi-Fi HOTSPOT
PoE
3 km, 15 watts

Non-POE Device
POWER EXTENDER

CAMERA
PoE+
1.6 km, 30 watts
PoE++
650 m, 60 watts
CAMERA

Ordering information

MID part number	Description
16AWG PFC-S04016	PFC, singlemode, 4F, outdoor
16AWG PFC-S12016	PFC, singlemode, 12F, outdoor

Power supplies

- 57VDC power supply for use with Powered Fiber Cable System

MID part number	Description
PFP-PX-S1	Power Express Distribution shelf with alarm module
PFP-PX-8M	Power Express Distribution module supports max. 8 devices
PFP-PX-SE	Power Express Blank Slot Panel
PFP-SPS-S1	SPS Rectifier Power Distribution Shelf
PFP-SPS-1600M	1600W SPS Power Rectifier module
PFP-SPS-C1	SPS Rectifier Controller Display
PFP-SPS-SF	SPS Rectifier Blank Slot Panel

PoE extender

MID part number	Description
PFU-P-C-O-060-01	60W, Single-port PoE extender
PFU-P-C-O-060-02	60W, 2-port PoE extender

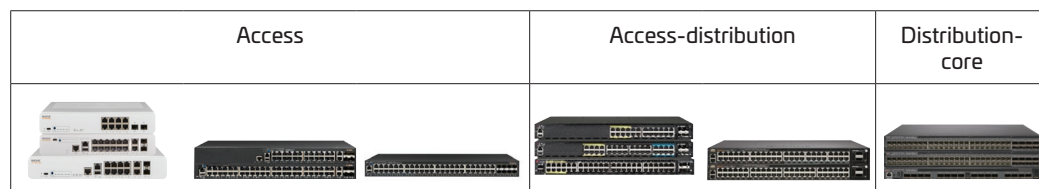| Feature/description	R850	R750	R650	R550	R320
	High-end Wi-Fi 6 802.11ax 8x8 dual-concurrent AP with MU-MIMO, BeamFlex+ and 5 Gbps backhaul	High-end Wi-Fi 6 802.11ax 4x4 dual-concurrent AP with MU-MIMO, BeamFlex+ and 2.5 Gbps backhaul	Mid-range WiFi 6 Wi-Fi 6 (802.11ax) dual- concurrent AP with MU-MIMO and BeamFlex+	Mid-range Wi-Fi 6 (802.11ax) dual-concurrent AP with MU-MIMO and BeamFlex+	Entry level 802.11ac Wave 2 dual-concurrent AP with BeamFlex
Maximum PHY rate	4800 Mbps (5 GHz) 1148 Mbps (2.4 GHz)	2400 Mbps (5 GHz) 1148 Mbps (2.4 GHz)	2400 Mbps (5 GHz) 574 (2.4 GHz)	1200 Mbps (5 GHz) 574 Mbps (2.4 GHz)	867 Mbps (5 GHz) 300 Mbps (2.4 GHz)
Wi-Fi technology	802.11ax (2.4 GHz, 5 GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4 GHz, 5 GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4 GHz, 5 GHz) Wi-Fi CERTIFIED 6™	802.11ax (2.4 GHz, 5 GHz) Wi-Fi CERTIFIED 6™	802.11ac (5 GHz) 802.11n (2.4 GHz)
Concurrent users	1024	1024	512	512	256
Radio chains:streams	5 GHz: 8x8:8 MU-MIMO 2.4 GHz: 4x4:4 MU-MIMO	4x4:4	5 GHz: 4x4:4 MU-MIMO 2.4 GHz: 2x2:2 MU-MIMO	2x2:2	2x2:2
Antenna patterns (per band)	4,000+	4,000+	128	64	64
Antenna gain	Up to 2 dBi	Up to 3 dBi	Up to 3 dBi	Up to 3 dBi	Up to 3 dBi
PD-MRC	✓	✓	✓	✓	-
Rx sensitivity (2.4/5Ghz)	-101 dBm	-102 dBm	-101 dBm	-103 dBm	-101 dBm
ChannelFly	✓	✓	✓	✓	✓
SmartMesh	✓	✓	✓	✓	-
USB (IoT ready)	✓	✓	✓	✓	-
Ethernet ports	1x 1/2.5/5 Gbps 1x 10/100/1000 Mbps	1x1 GbE 1x2.5 GbE	1 x 1 GbE 1 x 2.5 GbE	2 x 1 GbE	1 x 1 GbE
Integrated BLE/ZigBee	✓	✓	✓	✓	-
WLAN Control and Management	• Unleashed • SmartZone • RUCKUS Cloud	• Unleashed* • SmartZone • RUCKUS Cloud	• Unleashed* • SmartZone • RUCKUS Cloud*	• Unleashed* • SmartZone • RUCKUS Cloud*	• Unleashed • SmartZone • RUCKUS Cloud

RUCKUS® Outdoor access points

Feature / Description	T750	T710 Series	T610 Series	T310 Series
	High-end Wi-Fi 6 (802.11ax) dual- concurrent AP with MU-MIMO and BeamFlex+	High-end 802.11ac Wave 2 dual concurrent AP with BeamFlex+	Mid-range 802.11ac Wave 2 dual concurrent AP with BeamFlex+	Entry-level 802.11ac Wave 2 outdoor AP series with integrated BeamFlex+ omni and sector antennas
Maximum PHY rate	2400 Mbps (5 GHz) 1148 Mbps (2.4 GHz)	1733 Mbps (5 GHz) 600 Mbps (2.4 GHz)	1733 Mbps (5 GHz) 600 Mbps (2.4 GHz)	867 Mbps (5 GHz) 300 Mbps (2.4 GHz)
Wi-Fi technology	802.11ax (2.4 GHz, 5 GHz) Wi-Fi CERTIFIED 6™	802.11ac (5 GHz) 802.11n (2.4 GHz)	802.11ac (5 GHz) 802.11n (2.4 GHz)	802.11ac (5 GHz) 802.11n (2.4 GHz)
Concurrent users	1024	512	512	512
Radio chains: streams	4x4:4	4x4:4	4x4:4	2x2:2
Antenna patterns (per band)	4,000+	4,000+	4,000+	64
Antenna gain	Up to 3dBi	Omni: Up to 3dBi Sector: Up to 8dBi	Omni: Up to 3dBi 120 Sector: Up to 8dBi	Omni: Up to 3 dBi 120 Sector: Up to 9 dBi 30 Sector: Up to 12 dBi
PD-MRC	✓	✓	✓	✓
Rx sensitivity (2.4/5Ghz)	-103 dBm	-104/-104 dBm	-104 dBm	-101 dBm
ChannelFly	✓	✓	✓	✓
SmartMesh	✓	✓	✓	✓
Ethernet interface	1 x 1 GbE 1 x 2.5 GbE	2 x 1 GbE	2 x 1 GbE	1 x 1 GbE
USB (IoT ready)	✓	✓	✓	Models d, s, & n
Fiber interface	✓	✓	-	-
GPS	✓	✓	-	-
WLAN control and management	• SmartZone • RUCKUS Cloud	• SmartZone • Unleashed • RUCKUS Cloud	• SmartZone • Unleashed • RUCKUS Cloud	• SmartZone • Unleashed • RUCKUS Cloud

RUCKUS® control and management
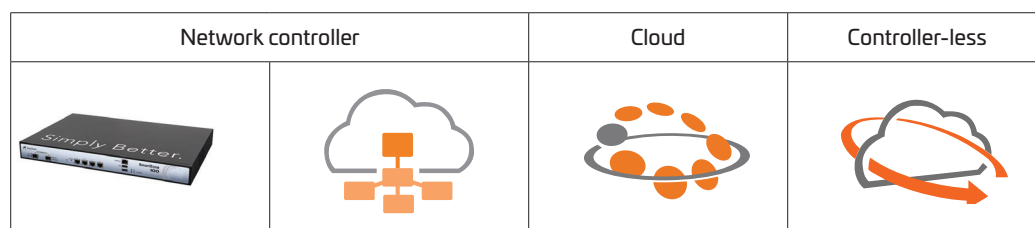
	Network controller		Cloud	Controller-less
Feature	SmartZone 100	Virtual SmartZone-E	RUCKUS Cloud	Unleashed
Number of APs supported	Up to 1,024 / 3,000 cluster	Up to 1,024 / 3,000 per cluster	Virtually unlimited number of AP supported	Up to 50 APs
Number of switches supported	Up to 200 / 600 per cluster	Up to 200 / 600 per cluster	Virtually unlimited number of switches supported	Up to 8 switches
Clients	Up to 25,000 / 60,000 cluster	25K / 60K per cluster	Clients per AP: refer to AP data sheet	up to 1,024
Ethernet ports	1GE Model: 4 GbE ports	1 vNIC	N/A	Refer to selected AP data sheet
Authentication support	802.1X, MAC address	802.1x, local database, Active Directory, RADIUS, LDAP	PSK, 802.1x, Active Directory, RADIUS, LDAP, SMS, social login, open	802/1x. local database, Active Directory, RADIUS, LDAPr
Guest networking/captive portal	✓	✓	✓	✓
DHCP server	External or assigned	External or vSZ-D assigned	External or assigned	✓
AP discovery and control	L2 / L3	L2 / L3	L2	L2
SSID/WLAN support	2,048 / 2,048 cluster	2,048	15/Venue	16
Management interface	Web GUI, CLI	Web GUI, SCI	Web GUI and native mobile application	Web GUI, CLI, Unleashed Multi-Site Manager
Remote management	Yes	Yes	Yes	Yes
Management protocol(s)	SNMP v3, RESTful JSON	SNMP v3	N/A	SNMP v3
VLAN support	Dynamic VLANs	Dynamic VLANs	Dynamic VLANs	Yes
Data Plane	Tunneling or local breakout	Tunneling or local breakout	Local breakout	Local breakout
Power supply	DC or AC	N/A	APs powered using PoE or optional power supply	PoE
Fans	Redundant	N/A	N/A	N/A
SKU / part number	1GE: P01-S104-XX00 10GE: P01-S124-XX00 AP Lic: L09-0001-SG00	L09-VSCG-WW00	Refer to RUCKUS Cloud data sheet for supported devices	Refer to Unleashed data sheet for supported devices

RUCKUS® ICX switches
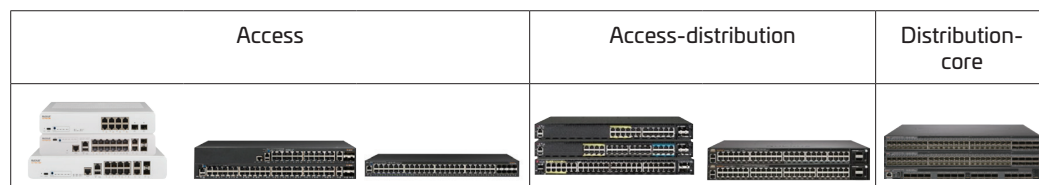
Feature	Access			Access-distribution		Distribution-core
	ICX 7150-Compact	ICX 7150	ICX 7150 Z-Series	ICX 7450	ICX 7650	ICX 7850
Switching capacity (max)	120 Gbps	180 Gbps	304 Gbps	336 Gbps	1.128 Tbps	6.4 Tbps
1 GbE RJ45 ports	8 or 10 or 12 +2	24 +2 or 48 +2	48	24 or 48	48	
1 GbE SFP ports	2	24 +4	8	48	48	48
1/2.5 GbE RJ-45 ports (max)	8		16			
1/2.5/5/10 GbE RJ45 ports (max)	2				24	
10 GbE SFP+ ports (max)	2	4	8	12	24 +4	128[1]
10 GbE RJ45 ports (max)	2			12	24	
25 GbE SFP28 ports						48
40 GbE QSFP+ ports (max)				3	2	
100 GbE QSFP28 ports (max)					2	32
PoE power budget (max)	240 W	740 W	1480 W	1480 W	1500 W	-
Switches per stack (max)	12	12	12	12	12	12
Aggregate stack bandwidth	240 Gbps	480 Gbps	480 Gbps	960 Gbps	2.4 Tbps	9.6 Tbps

RUCKUS® ICX switches

Feature	Access			Access-distribution		Distribution-core
	ICX 7150-Compact	ICX 7150	ICX 7150 Z-Series	ICX 7450	ICX 7650	ICX 7850
PoE/PoE+	✓	✓	✓	✓	✓	
Long-distance stacking	✓	✓	✓	✓	✓	✓
sFlow	✓	✓	✓	✓	✓	✓
Layer 3 (Static, RIP, OSPF)	✓	✓	✓	✓	✓	✓
OpenFlow with hybrid port mode	✓	✓	✓	✓	✓	✓
RUCKUS Campus Fabric	✓	✓	✓	✓	✓	✓
Redundant power option			✓	✓	✓	✓
PoH (90 W PoE power per port)	✓		✓	✓	✓	
Hot swap internal power supplies and fans			✓	✓	✓	✓
EEE (Energy Efficient Ethernet)		✓	✓	✓	✓	
VRF				✓	✓	✓
IPsec VPN (with service module)				✓		
MACsec				✓	✓	✓
BGP				✓	✓	✓
Reversible airflow option				✓	✓	✓
VxLan						✓
Multi chassis trunking (MCT)					✓	✓
Unified network management options	• SmartZone • Unleashed • RUCKUS Cloud	• SmartZone • Unleashed • RUCKUS Cloud	• SmartZone • Unleashed • RUCKUS Cloud	• SmartZone • Unleashed	• SmartZone • Unleashed • RUCKUS Cloud	• SmartZone • Unleashed • RUCKUS Cloud

Software		
IoT Suite (internet of things management server)		RUCKUS IoT Suite is a software controller that supports IoT devices from the RUCKUS IoT Ecosystem. Our IoT Ecosystem partners offer panic buttons, door locks, thermostats, etc. running BLE, Zigbee, Bluetooth, LoRA, etc. wireless interfaces.
Wi-Fi technology (service assurance)		RUCKUS Analytics is a cloud service for network intelligence and service assurance. Powered by machine learning and artificial intelligence, it gives IT comprehensive visibility into network operations and accelerates troubleshooting. RUCKUS Analytics delivers powerful incident analytics, automated health monitoring, robust reporting, informative dashboards and more.
SmartCell Insight (SCI) (reporting and dashboards)		RUCKUS SmartCell Insight is software that delivers detailed reporting and informative dashboards for your RUCKUS network. It aggregates data from applications, users, devices, access points, controllers and switches to provide visibility into network operations. The software helps you manage the network more effectively and improve user experience.
Cloudpath BYOD Enrollment System (secure network access)		RUCKUS Cloudpath Enrollment System is software/SaaS that delivers secure network access for any user, and any device, on any network. It streamlines network onboarding and authentication for BYOD, guest users and IT-owned devices—including IoT devices. The software increases security and reduces IT workload while providing a great end-user onboarding experience. Choose from cloud-based and virtualized on-premises deployment.

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