DATA SHEET

ENTRY-LEVEL ACCESS SWITCH FAMILY DELIVERS UNPRECEDENTED PERFORMANCE AND FEATURES IN ITS CLASS

The Brocade[®] ICX[®] 7150 family of stackable switches delivers the performance, flexibility, and scalability required for enterprise access deployment, raising the bar with non-blocking performance and up to 8x10 GbE ports for uplinks or stacking. It offers seamless interoperability with Ruckus wireless products to deliver unified wired and wireless network access. In addition, Ruckus Multigigabit Ethernet technology offers bandwidth speeds needed to optimize performance of the latest generation high performance wireless access points and edge devices, over standard Ethernet cables.

BROCADE ICX 7150 SWITCHES

The standard Brocade ICX 7150 switches are available in 24-, and 48-port 10/100/1000 Mbps models with four 1/10 GbE dual-purpose uplink/stacking ports. These switches are available with or without PoE+ power. Silent operation is available for out-of-closet environments.

BROCADE ICX 7150 COMPACT SWITCHES



The Brocade ICX 7150-C12P compact 12-port stackable switch features a fanless design to operate silently in out-of-closet environments such as offices, classrooms, and retail spaces. It offers PoE+ on all 12 ports to drive devices such as wireless APs, VoIP phones, lighting fixtures or surveillance cameras. With 2x1/10 GbE uplink/stacking ports, the ICX 7150-C12 delivers high performance in a small package.

BROCADE ICX 7150 PRODUCT FAMILY

BROCADE ICX 7150	
	d power supply, one RJ-45 Ethernet port for out-of-band network management, one USB Type-C console management, and one USB port for external file storage.
	Brocade ICX 7150-24 Switch 24× 10/100/1000 Mbps RJ-45 ports 2× 10/100/1000 Mbps uplink RJ-45 ports 4× 1/10 GbE uplink/stacking SFP/SFP+ ports
	Brocade ICX 7150-24P Switch 24× 10/100/1000 Mbps RJ-45 PoE+ ports 370 W PoE budget 2× 10/100/1000 Mbps uplink RJ-45 ports 4× 1/10 GbE uplink/stacking SFP/SFP+ ports
	Brocade ICX 7150-48 Switch 48× 10/100/1000 Mbps RJ-45 ports 2× 10/100/1000 Mbps uplink RJ-45 ports 4× 1/10 GbE uplink/stacking SFP/SFP+ ports
	Brocade ICX 7150-48P Switch 48× 10/100/1000 Mbps RJ-45 PoE+ ports 370 W PoE budget 2× 10/100/1000 Mbps uplink RJ-45 ports 4× 1/10 GbE uplink/stacking SFP/SFP+ ports
	Brocade ICX 7150-48PF Switch 48×10/100/1000 Mbps RJ-45 PoE+ ports 740 W PoE budget 2×10/100/1000 Mbps uplink RJ-45 ports 4×1/10 GbE uplink/stacking SFP/SFP+ ports

BROCADE ICX 7150 COMPACT SWITCH

The Brocade ICX 7150 compact switch offer a single integrated power supply, one RJ-45 Ethernet port for out-of-band network management, one USB Type-C port for console management, one RJ-45 port for serial console management, and one USB port for external file storage.



Brocade ICX 7150-C12P Compact Switch 12× 10/100/1000 Mbps POE+ RJ-45 ports 124 W power budget 2× 10/100/1000 Mbps uplink RJ-45 ports 2× 1/10 GbE uplink/stacking SFP/SFP+ ports

BROCADE ICX 7150 FEATURE/MODEL COMPARISON

	24 or 48 RJ-45 Ports12 RJ45 PoE+ Ports24 or 48 RJ45 PoE+ Ports			orts		
FEATURE	Brocade ICX 7150-24	Brocade ICX 7150-48	Brocade ICX 7150-C12P	Brocade ICX 7150-24P	Brocade ICX 7150-48P	Brocade ICX 7150-48PF
Switching capacity (data rate, full duplex)	132 Gbps	180 Gbps	68 Gbps	132 Gbps	180 Gbps	180 Gbps
Forwarding capacity (data rate, full duplex)	98 Mpps	134 Mpps	51 Mpps	98 Mpps	134 Mpps	134 Mpps
10/100/1000 Mbps RJ45 downlinks	24	48	12	24	48	48
100/1000 Mbps/2.5 Gbps RJ45 downlinks (full duplex only)						
10/100/1000 Mbps RJ45 uplinks (full duplex only, no PoE)	2	2	2	2	2	2
1/10 Gbps SFP/SFP+ uplinks	4	4	2	4	4	4
PoE/PoE+ ports			12	24	48	48
PoH / PoE / PoE+ 802.3bt ready ports ¹						
Dual hot-swap power supplies						
Maximum PoE Class 3 ports (15.4 W per port)			8	24	24	48
Maximum PoE+ Class 4 ports (30 W per port)			4	12	12	24
Base IPv4/v6 Layer 3 routing (static routing, RIP)	Yes	Yes	Yes	Yes	Yes	Yes
Advanced IPv4/v6 Layer 3 routing (OSPF, VRRP, PIM, PBR features)	With license	With license	With license	With license	With license	With license
Aggregated stacking bandwidth (data rate, full duplex)	480 Gbps	480 Gbps	240 Gbps	480 Gbps	480 Gbps	480 Gbps
Stacking density (maximum switches in a stack)	12	12	12	12	12	12
Stacking ports (maximum ports ² usable for stacking)	Up to 4×10 GbE SFP+ Up to 2×10 GbE SFP+ Up to 4×10 GbE SFP+		F			
Maximum stacking distance (distance between stacked switches)	10 km	10 km	10 km	10 km	10 km	10 km
Campus Fabric	Fabric Port Extender (PE)					

¹ Up to 90W per port, IEEE 802.3bt standard pending ratification. Compatible with uPoE. ² 10 Gbps SFP+ ports are required for stacking.

BROCADE ICX 7150 FEATURE/MODEL COMPARISON

	24 or 48 RJ-45 Ports12 RJ45 PoE+ Ports24 or 48 RJ45 PoE+ Ports				orts	
	Brocade ICX 7150-24	Brocade ICX 7150-48	Brocade ICX 7150-C12P	Brocade ICX 7150-24P	Brocade ICX 7150-48P	Brocade ICX 7150-48PF
FEATURE			PO	WER		
Power inlet (AC)			C	14		
Input voltage/frequency			AC: 100 to 240 V	AC @ 50 to 60 Hz		
Power supply rated maximum (AC)	36 W	65 W	150 W	525 W	525W	880 W
PoE power budget (AC)			124 W	370 W	370 W	740 W
Switch power consumption ³ (25°C) Idle (no PoE load) 10% traffic ⁴ (full PoE load) 100% traffic ⁴ (full PoE load)	14 W 24 W 24 W	24 W 38 W 39 W	20 W 157 W 157 W	32 W 455 W 472 W	47 W 476 W 491 W	50 W 869 W 893 W
Airflow	Fanless	Fanless	Fanless	Side-to-back	Side-to-back	Side-to-back
Switch heat dissipation (25°C) ^{3,5} Idle (no PoE load) 10% traffic ⁴ (full PoE load) 100% traffic ⁴ (full PoE load)	47 BTU/hr 81 BTU/hr 82 BTU/hr	83 BTU/hr 131 BTU/hr 132 BTU/hr	69 BTU/hr 536 BTU/hr 537 BTU/hr	108 BTU/hr 1554 BTU/hr 1610 BTU/hr	160 BTU/hr 1626 BTU/hr 1677 BTU/hr	170 BTU/hr 2964 BTU/hr 3049 BTU/hr
FEATURE		ENVIRONMENT				
Net Weight (Kg)	3.8	4.82	2.58	4.93	6.17	6.28
Dimensions (mm)	440 (W) 280 (D) 43.65 (H)	440 (W) 370 (D) 43.65 (H)	269 (W) 213 (D) 43.4 (H)	440 (W) 280 (D) 43.65 (H)	440 (W) 370 (D) 43.65 (H)	440 (W) 370 (D) 43.65 (H)
Acoustics (25°C, min fan speed)	Fanless	Fanless	Fanless	41.4 dBA	41.8 dBA	47.7 dBA
MTBF (25°C)	871,931 hours	714,420 hours	562,889 hours	397,428 hours	335,853 hours	312,241 hours

 $^{\scriptscriptstyle 3}$ ICX 7150-48ZP Switch includes one AC power supply and one fan.

⁴ Traffic load on all ports connected with maximum possible PoE/PoE+ loads (if equipped).

⁵ PoE power not included in switch heat dissipation figures since the heat is not dissipated at the switch.

FEATURES	SPECIFICATIONS
Connector options	 10/100/1000 Mbps RJ-45 1 Gbps SFP ports 1/10 Gbps SFP+ ports Out-of-band Ethernet management: 10/100/1000 Mbps RJ-45 Console management: RJ45 serial port and USB Type-C port with serial communication device class support File transfer: USB port, standard-A plug For the latest information about supported optics, please visit <u>http://ruckuswireless.com/optics.</u>
DRAM NVRAM (Flash) Packet buffer size	 1 GB 2 GB 12/24 port: 2 MB, 48 port: 4 MB
Maximum MAC addresses	• 16,384
Maximum VLANs Maximum PVLANs	4,09532
Maximum STP (spanning trees instances)	• 254
Maximum VEs	• 128
Maximum ARP entries	• 4,094
Maximum routes (in hardware)	 1,000 (IPv4), 1,000 (IPv6) Next hop address: 4,094
Trunking	Maximum ports per trunk: 16Maximum trunk groups: 128
Maximum jumbo frame size	• 9,216 bytes
QoS priority queues	• 8 per port
Multicast groups	 3,072 (Layer 2) 2,048 (Layer 3)
Quality of Service (QoS)	 ACL Mapping and Marking of ToS/DSCP (CoS) ACL Mapping and Marking of 802.1p ACL Mapping to Priority Queue Classifying and Limiting Flows Based on TCP Flags DiffServ Support Honoring DSCP and 802.1p (CoS) MAC Address Mapping to Priority Queue Priority Queue Management using Weighted Round Robin (WRR), Strict Priority (SP), and a combination of WRR and SP
Traffic management	 ACL-based inbound rate limiting and traffic policies Broadcast, multicast, and unknown unicast rate limiting Inbound rate limiting per port Outbound rate limiting per port and per queue

Security	 802.1X authentication MAC authentication Flexible authentication Web authentication DHCP snooping Dynamic ARP inspection Neighbor Discovery (ND) Inspection Bi-level Access Mode (Standard and EXEC Level) EAP pass-through support IEEE 802.1X username export in sFlow Protection against Denial of Service (DoS) attacks Authentication, Authorization, and Accounting (AAA 	 MAC Address Locking MAC Port Security Advanced Encryption Standard (AES) with SSHv2 RADIUS/TACACS/TACACS+ Secure Copy (SCP) Secure Shell (SSHv2) Protected Ports Local Username/Password Change of Authorization (CoA) RFC 5176 Trusted Platform Module RADSEC (RFC 6614) Encrypted Syslog (RFC 5425)
SDN features	 OpenFlow v1.0 and v1.3 OpenFlow with hybrid port mode Operates with an OpenDayLight Controller 	
High availability	 Layer 3 VRRP/VRRP-E protocol redundancy Real-time state synchronization across the stack Hitless failover and switchover from master to stance Hot insertion and removal of stacked units Layer 2 VSRP switch redundancy In Service Software Update (ISSU) 	dby stack controller
FEATURES	FEA	TURE SETS
Layer 2 feature set	 802.1s Multiple Spanning Tree 802.1x Authentication Auto MDI/MDIX BPDU Guard, Root Guard Dual-Mode VLANs MAC-based VLANs, Dynamic MAC-based VLAN activation Dynamic VLAN Assignment Dynamic Voice VLAN Assignment Fast Port Span GVRP: GARP VLAN Registration Protocol IGMP Snooping (v1/v2/v3) IGMP Proxy for Static Groups IGMP v2/v3 Fast Leave Inter-Packet Gap (IPG) adjustment Link Fault Signaling (LFS) MAC Address Filtering MAC Learning Disable 	 MLD Snooping (v1/v2) Multi-device Authentication Per-VLAN Spanning Tree (PVST/PVST+/PRST) Mirroring: Port-based, ACL-based, MAC Filter-based, and VLAN-based PIM-SM v2 Snooping Port Loop Detection Private VLAN Remote Fault Notification (RFN) Single-instance Spanning Tree Trunk Groups (static, LACP) Uni-Directional Link Detection (UDLD) Metro-Ring Protocol (MRP) (v1, v2) Virtual Switch Redundancy Protocol (VSRP) Q-in-Q and selective Q-in-Q VLAN Mapping Topology Groups
Base Layer 3 IP routing feature set	 IPv4 and IPv6 static routes RIP v1/v2, RIPng ECMP Port-based Access Control Lists Layer 3/Layer 4 ACLs 	 Host routes Virtual Interfaces Routed Interfaces Route-only Support Routing Between Directly Connected Subnets
Premium Layer 3 IP routing feature set with software license	 IPv4 and IPv6 dynamic routes OSPF v2, v3 PIM-SM, PIM-SSM, PIM-DM, PIM passive (IPv4, IPv6) PBR 	 Virtual Route Redundancy Protocol VRRP (IPv4) VRRP v3 (IPv6) VRRP-E (IPv4/IPv6)

FEATURES	STANDARD COMPLIANCE		
IEEE standards compliance	 802.1AB LLDP/ LLDP-MED 802.1D MAC Bridging 802.1p Mapping to Priority Queue 802.1s Multiple Spanning Tree (MST) 802.1w Rapid Reconfiguration of Spanning Tree (RST 802.1x Port-based Network Access Control (PNAC) 802.3 Carrier Sense Multiple Access/Collision Detection (CSMA/CD) 802.3ab 1000BASE-T 802.3ad Link Aggregation (Dynamic and Static) 	 802.1 AX-2008 Link Aggregation 802.3ae 10 Gigabit Ethernet 802.3af Power over Ethernet 802.3at Power over Ethernet Plus 802.3bz Multigigabit Ethernet 802.3u 100Base-TX 802.3x Flow Control 802.3z 1000Base-SX/LX 802.3 MAU MIB (RFC 2239) 802.1Q VLAN Tagging 802.1BR Bridge Port Extension 	
RFC standards compliance	For a complete list of RFCs supported by the ICX 7000 please visit <u>support.ruckuswireless.com</u> .	product family,	
FEATURES	NETWORK AND DEVICE MANAGEMENT		
Management	 DHCP Auto Configuration Configuration Logging Digital Optical Monitoring Display Log Messages on Multiple Terminals Embedded Web Management (HTTP/HTTPS) Embedded DHCP Server Industry-standard Command Line Interface (CLI) Ruckus SmartZone Network Controller (sold separately) CLI activation of optional software features USB file management and storage Macro for batch execution Out-of-band Ethernet Management RSPAN TFTP TELNET Client and Server SSH / SSH V2 	 Bootp SNMPv1/v2c DHCP Server and DHCP Relay SNMPv3 Intro to Framework Architecture for Describing SNMP Framework SNMP Message Processing and Dispatching SNMPv3 Applications SNMPv3 User-based Security Model SNMP View-based Access Control Model SNMP sFlow Network Time Protocol (NTP) Multiple Syslog Servers SCP Virtual Cable Tester (VCT) For management MIB, please visit ruckuswireless.com 	
Ruckus Campus Fabric technology	 The Brocade ICX 7150 can operate in fabric Port Ext Up to 36 PEs per fabric (up to 1800 ports) PE cascade depth up to 6 units 	ender (PE) mode	
FEATURES	ENV	IRONMENT	
Temperature	Operating temperature: -5°C to 45°C Storage temperature: -25°C to 70°C		
Humidity	Operating relative humidity: 5% to 95% at 45°C, non-co Non-operating relative humidity: 0% to 95% at 70°C, no		
Altitude	Operating altitude: 10,000 ft (3,000 m) maximum Storage altitude: 39,000 ft (12,000 m) maximum		

FEATURES	COMPLIANCE/CERTIFICATION
Electromagnetic emissions	FCC Class A (Part 15); EN 55022/CISPR-22 Class A; VCCI Class A; ICES-003 Electromagnetic Emission; AS/NZS 55022; EN 61000-3-2 Power Line Harmonics; EN 61000-3-3 Voltage Fluctuation and Flicker; EN 61000-6-3 Emission Standard (supersedes: EN 50081-1)
Safety	CAN/CSA-C22.2 NO. 60950-1-07; UL 60950-1 Second Edition; IEC 60950-1 Second Edition; EN 60950-1:2006 Safety of Information Technology Equipment; EN 60825-1 Safety of Laser Products—Part 1: Equipment Classification, Requirements and User's Guide; EN 60825-2 Safety of Laser Products—Part 2: Safety of Optical Fibre Communication Systems
Immunity	EN 61000-6-1 Generic Immunity and Susceptibility (supersedes EN 50082-1); EN 55024 Immunity Characteristics (supersedes EN 61000-4-2 ESD); EN 61000-4-3 Radiated, Radio Frequency, Electromagnetic Field; EN 61000-4-4 Electrical Fast Transient; EN 61000-4-5 Surge; EN 61000-4-6 Conducted Disturbances Induced by Radio-Frequency Fields; EN 61000-4-8 Power Frequency Magnetic Field; EN 61000-4-11 Voltage Dips and Sags
Environmental regulatory compliance	RoHS-compliant (6 of 6); WEEE-compliant
Vibration	IEC 68-2-36, IEC 68-2-6
Shock and drop	IEC 68-2-27, IEC 68-2-32

BROCADE ICX 7150 ORDERING INFORMATION

PART NUMBER	BROCADE ICX 7150 SWITCHES WITH 1 GBE UPLINKS
ICX7150-C12P-2X1G	Brocade ICX 7150 Compact Switch, 12×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 2×1 GbE SFP uplink-ports upgradable to 2×10 GbE SFP+ with license. 124 W PoE budget, basic Layer 3 (static routing and RIP).
ICX7150-24-4X1G	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 4×1 GbE SFP uplink-ports upgradable to up to 4×10 GbE SFP+ with license, basic Layer 3 (static routing and RIP).
ICX7150-24P-4X1G	Brocade ICX 7150 Switch 24×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×1 GbE SFP uplink ports upgradable to up to 4×10 GbE SFP+ with license, 370 W PoE budget, basic Layer 3 (static routing and RIP).
ICX7150-48-4X1G	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 4×1 GbE SFP uplink-ports upgradable to up to 4×10 GbE SFP+ with license, basic Layer 3 (static routing and RIP).
ICX7150-48P-4X1G	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×1 GbE SFP uplink ports upgradable to up to 4×10 GbE SFP+ with license, 370 W PoE budget, basic Layer 3 (static routing and RIP).
ICX7150-48PF-4X1G	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×1 GbE SFP uplink ports upgradable to up to 4×10 GbE SFP+ with license, 740 W PoE budget, basic Layer 3 (static routing and RIP).
PART NUMBER	BROCADE ICX 7150 SWITCHES WITH 2×10 GBE UPLINKS
ICX7150-C12P-2X10GR	Brocade ICX 7150 Compact Switch, 12×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45, 2×10 GbE SFP+ stacking/uplink- ports, 124 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR).
ICX7150-24-2X10G	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 2×1 GbE SFP and 2×10 GbE SFP+ stacking/uplink-ports upgradable to 4×10 GbE SFP+ with license, basic Layer 3 (static routing and RIP).
ICX7150-24P-2X10G	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 2×1 GbE SFP and 2×10 GbE SFP+ stacking/uplink-ports upgradable to 4×10 GbE SFP+ with license, 370 W PoE budget, basic Layer 3 (static routing and RIP).
ICX7150-48-2X10G	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 2×1 GbE SFP and 2×10 GbE SFP+ stacking/uplink-ports upgradable to 4×10 GbE SFP+ with license, basic Layer 3 (static routing and RIP).

BROCADE ICX 7150 ORDERING INFORMATION

ICX7150-48P-2X10G	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 2×1 GbE SFP and 2×10 GbE SFP+ stacking/uplink-ports upgradable to 4×10 GbE SFP+ with license, 370 W PoE budget, basic Layer 3 (static routing and RIP).
ICX7150-48PF-2X10G	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 2×1 GbE SFP and 2×10 GbE SFP+ stacking/uplink-ports upgradable to 4×10 GbE SFP+ with license, 740 W PoE budget, basic Layer 3 (static routing and RIP).
PART NUMBER	BROCADE ICX 7150 SWITCHES WITH UP 4 OR 8×10 GBE UPLINKS AND LAYER 3 FEATURES
ICX7150-24-4X10GR	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/uplink- ports, Layer 3 features (OSPF, VRRP, PIM, PBR).
ICX7150-24P-4X10GR	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/ uplink-ports, 370 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR).
ICX7150-48-4X10GR	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/uplink- ports, Layer 3 features (OSPF, VRRP, PIM, PBR).
ICX7150-48P-4X10GR	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/ uplink-ports, 370 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR).
ICX7150-48PF-4X10GR	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/ uplink-ports , 740 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR).
PART NUMBER	BROCADE ICX 7150 SWITCHES WITH THREE-YEAR REMOTE SUPPORT Please note that three-year remote support can be ordered separately to cover any Brocade ICX 7150 model.
ICX7150-C12P-2X10GR-RMT3	Brocade ICX 7150 Compact Switch, 12×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 2×10 GbE SFP+ stacking/uplink-ports, 124 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR), three-year remote support.
ICX7150-24-4X10GR-RMT3	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/uplink- ports, Layer 3 features (OSPF, VRRP, PIM, PBR), three-year remote support.
ICX7150-24P-4X10GR-RMT3	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps PoE+ ports, 2×1G RJ45 uplink-ports, 4×10 GbE SFP+ stacking/uplink- ports, 370 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR), three-year remote support.
ICX7150-48-4X10GR-RMT3	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/uplink- ports, Layer 3 features (OSPF, VRRP, PIM, PBR), three-year remote support.
ICX7150-48P-4X10GR-RMT3	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/ uplink-ports, 370 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR), three-year remote support.
ICX7150-48PF-4X10GR-RMT3	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/ uplink-ports, 740 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR), three-year remote support.

BROCADE ICX 7150 ORDERING INFORMATION

PART NUMBER	TAA-COMPLIANT BROCADE ICX 7150 SWITCHES The Brocade ICX 7150 models with the SKUs below meet the requirements of the Trade Agreements Act (TAA).
ICX7150-C12P-2X10GR-A	Brocade ICX 7150 Compact Switch, 12×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 2×10 GbE SFP+ stacking/uplink-ports, 124 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR), TAA-compliant.
ICX7150-24-4X10GR-A	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/uplink- ports, Layer 3 features (OSPF, VRRP, PIM, PBR), TAA-compliant.
ICX7150-24P-4X10GR-A	Brocade ICX 7150 Switch, 24×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/ uplink-ports, 370 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR), TAA-compliant.
ICX7150-48-4X10GR-A	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/uplink- ports, Layer 3 features (OSPF, VRRP, PIM, PBR), TAA-compliant.
ICX7150-48P-4X10GR-A	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/ uplink-ports, 370 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR), TAA-compliant.
ICX7150-48PF-4X10GR-A	Brocade ICX 7150 Switch, 48×10/100/1000 Mbps PoE+ ports, 2×1 GbE RJ45 uplink-ports, 4×10 GbE SFP+ stacking/ uplink-ports, 740 W PoE budget, Layer 3 features (OSPF, VRRP, PIM, PBR), TAA-compliant.
PART NUMBER	UPGRADE LICENSES All Brocade ICX 7150 switch models with 1 GbE SFP uplink ports can be upgraded to 10 GbE SFP+ ports with a license.
BR-ICX-7150C-21U210R-P-01	License to upgrade the Brocade ICX 7150 compact switch from 2×1 GbE SFP to 2×10 GbE SFP+ stacking/uplink-ports. Also includes Layer 3 features (OSPF, VRRP, PIM, PBR).
BR-ICX-7150-41U210-P-01	License to upgrade any Brocade ICX 7150 24/48 ports except the Z-Series from 4×1 GbE SFP to 2×1 GbE SFP and 2×10 GbE SFP+ stacking/uplink-ports.
BR-ICX-7150-41U410R-P-01	License to upgrade any Brocade ICX 7150 24/48 ports except the Z-Series from 4×1 GbE SFP to 4×10 GbE SFP+ stacking/uplink-ports. Also includes Layer 3 features (OSPF, VRRP, PIM, PBR).
BR-ICX-7150-210U410R-P-01	License to upgrade any Brocade ICX 7150 24/48 ports except the Z-Series from 2×1 GbE SFP and 2×10 GbE SFP+ to 4×10 GbE SFP+ stacking/uplink-ports. Also includes Layer 3 features (OSPF, VRRP, PIM, PBR).
PART NUMBER	FRUS AND ACCESSORIES
ICX6400-C12-MGNT	Magnet Mount Kit for Brocade ICX 7150/6450/6430 12 Port Compact Switch.
CC-RJ45-DB9	Console cable RJ45-RJ45 With RJ-45-DB9 Adapter (for RJ-45 console port on ICX 7150)
CC-USBC-USBA	USB 2.0 Cable, Type-C to Type-A, 1 meter (for USB Type-C console port on ICX 7150)
ICX7000-C12-RMK	ICX7150-C12P Compact Switch Rack Mount Kit
ІСХ7000-С12-WMK	ICX7150-C12P Compact Switch Wall Mount & Under Desk Mount Kit
XBR-R000295	Universal Rack Mount Kit ,4 post FRU.
ICX7000-RMK	Rack Mount Kit, 2-post FRU for ICX 7000 series 24/48 port models.
RMK-LRM-ADP	Rack Mount Kit for LRM adapters. This 1RU shelf can accommodate up to 8 LRM adapters.

BROCADE ICX 7150 ORDERING INFORMATION

OPTICS				
See <u>Optics Datasheet</u> at <u>www.ruckuswireless.com/ optics</u>	Ruckus offers a unique set of high-performance, reliable, and cost-effective optical transceivers to help enterprises and service providers meet the challenges of diverse network topologies. To ensure maximum quality, Ruckus selects and tests the most reliable, highest-performing optical transceivers on the market, and then warrants their availability, capacity, and performance in Ruckus [®] product." for a the specific list of optics supported by each ICX product see the <u>Optics Datasheet</u> at <u>www.ruckuswireless.com/optics</u> .			

MANAGEMENT SOFTWARE

www.ruckuswireless.com/	Ruckus SmartZone centralizes management of the entire family of Ruckus switches and wireless Access Points with a single easy to deploy management platform. It simplifies network set-up and management, enhances security, streamlines troubleshooting and eases upgrades. SmartZone Network Controllers are available in both appliance and virtual appliance form. For more information, go to <u>www.ruckuswireless.com/smartzone</u> .

ORDERING NOTES

All Brocade ICX 7150 switches come with an accessory kit that includes a rubber foot kit, power cord clip, rack mount kit (for 24/48 ports model), RJ-45 console cable and US AC power cord. Stacking cables, USB console cables, compact switch rack mount kit, and optics need to be ordered separately.

All Brocade ICX 7150 switch models with 1 GbE SFP uplink ports can be upgraded to 10 GbE SFP+ ports with a license.

Standard Brocade ICX 7150 1 RU Switch models can be ordered configured with either 4×1 GbE SFP, 2×1 GbE SFP, and 2×10 GbE SFP+, or 4×10 GbE SFP+ uplinks.

The Brocade ICX 7150 compact switch can be ordered configured with either 2×1 GbE SFP or 2×10 GbE SFP+ uplinks.

Upgrade licenses are available to upgrade standard Brocade ICX 7150 1 RU switches to either 2×1 GbE SFP and 2×10 GbE SFP+ or to 4×10 GbE SFP+, the Brocade ICX 7150 compact switch to 2×10 GbE SFP+.

Brocade ICX 7150 Switches with 4×10 GbE SFP+ and 8×10 GbE SFP+ (2×10 GbE SFP+ for the compact switch) include a license to enable Layer 3 features (OSPF, VRRP, PIM, PBR).

Special SKUs have been created to enable customers to order specific Brocade ICX 7150 models with three-year remote support included. Please note that additional years of remote support can always be ordered separately to cover any Brocade ICX 7150 model. Contact Ruckus or channel partner representative for details about Ruckus support options and support part numbers.

For your convenience, a fully loaded ICX 7150-48ZP model with dual power supplies and 8×10 GbE ports bundle has been created. It comes with factory installed power supplies, fans and 8×10 GbE port licenses.

WARRANTY

Brocade ICX 7150 Switches are covered by the Ruckus Assurance Limited Lifetime Warranty. For details, visit <u>www.ruckuswireless.</u> <u>com/warranty</u>.

BEST-IN-CLASS SUPPORT

Brocade ICX 7150 switches are supported by next-business-day advance replacement where available, as well as software defect repairs and maintenance updates. 90 days remote support is included with the product purchase. Many on-site and remote support options are available and can be purchased bundled with the product or separately.

LEGAL DISCLAIMER

Product features, functionality and specifications may change or be discontinued without notice. Nothing in this document shall be deemed to create a warranty of any kind, either express or implied, statutory or otherwise, including but not limited to, any implied warranties of merchantability, fitness for a particular purpose, noninfringement of third-party rights or availability with respect to any products and services.

Refer to <u>www.ruckuswireless.com</u> for the latest version of this document.

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