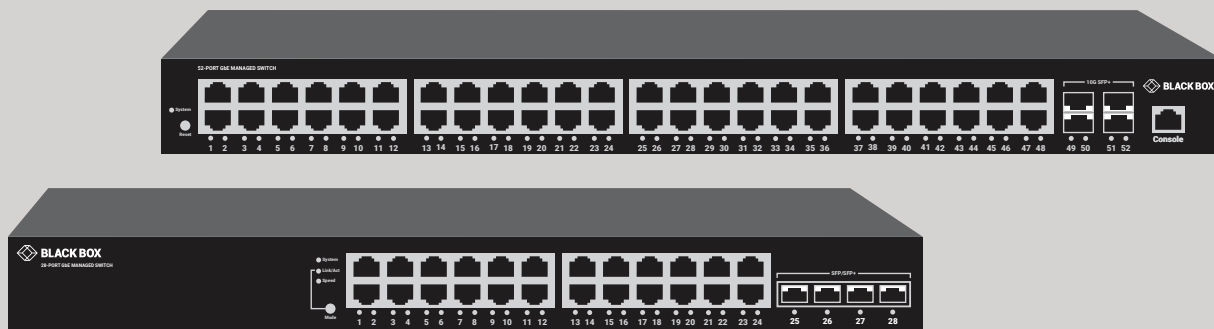


# DATA SHEET

LGB5028A-R2, LGB5052A

# GBE MANAGED SWITCHES

24/7 TECHNICAL SUPPORT AT 877.877.2269 OR VISIT [BLACKBOX.COM](http://BLACKBOX.COM)



## SPECIFICATION COMPARISON CHART

	LGB5028A-R2	LGB5052A
RJ-45 PORTS (10M/100M/1G)	24	48
SFP+ UPLINK PORTS (1G/10G)	4	4
CONSOLE PORT	(1) DB9	(1) RJ-45
MANAGED	YES	YES



# OVERVIEW

## GBE MANAGED SWITCHES DATA SHEET

### INTRODUCTION

LGB5028A-R2, LGB5052A Gigabit Ethernet (GbE) Managed Switches offer a full suite of L2 Ethernet Switch features and additional 10GbE uplink connections, including advanced L3 features such as Static Route for Enterprise networks via fiber or copper connections.

LGB5028A-R2 has 24 (10M/100M/1G) RJ-45 ports, 4 GbE/10G SFP+ ports and a DB9 console port.

LGB5052A has 48 (10M/100M/1G) RJ-45 ports, 4 GbE/10G SFP+ ports and an RJ-45 console port.

Both switches provide high hardware performance and environment flexibility for SMBs and Enterprises.

The switches are ideal to deliver management simplicity, optimum user experience, and lower cost. The embedded DeviceManaged System is designed to be extremely easy-to-use/manage/install IP Phone, IP Cam, or Wifi-AP for Enterprise Applications.

### FEATURES

- L2+ FEATURES PROVIDE BETTER MANAGEABILITY, SECURITY, QOS, AND PERFORMANCE
- IPV4/IPV6 DUAL STACK MANAGEMENT
- SSH/SSL SECURED MANAGEMENT
- SNMP V1/V2C/V3
- RMON GROUPS 1,2,3,9
- SFLOW
- IGMP V1/V2/V3 SNOOPING
- MLD V1/V2 SNOOPING
- RADIUS AND TACACS+ AUTHENTICATION
- IP SOURCE GUARD
- DHCP RELAY (OPTION 82)
- DHCP SNOOPING
- ACL AND QCL FOR TRAFFIC FILTERING
- 802.1D(STP), 802.1W(RSTP) AND 802.1S(MSTP)
- LACP AND STATIC LINK AGGREGATION
- Q-IN-Q DOUBLE TAG VLAN
- GVRP DYNAMIC VLAN

## COMPATIBLE SFPS

COMPATIBLE SFP/SFP+ MODELS	
PRODUCT CODE	DESCRIPTION
LFP411	SFP, 1250-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 850-NM MULTIMODE, 550 M LC
LFP412	SFP, 1250-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 1310-NM MULTIMODE, 2 KM LC
LFP413	SFP, 1250-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 1310-NM SINGLE-MODE, 10 KM LC
LFP414	SFP, 1250-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 1310-NM SINGLE-MODE, 30 KM LC
LFP415	SFP WITH SERDES INTERFACE, 1250 MBPS, RJ45, 1000BASE-T, EXTENDED DIAGNOSTICS
LFP416	SFP WITH SGMII INTERFACE, 1250 MBPS, RJ45, 10/100/1000BASE-T, EXTENDED DIAGNOSTICS
LFP417	SFP WITH SERDES INTERFACE, 1250 MBPS, RJ45, 1000BASE-T, EXTENDED DIAGNOSTICS
LFP418	SFP, 1250-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 1550-NM SINGLE-MODE, 80 KM, LC
LFP420	SFP, 1250-MBPS SIMPLEX FIBER WITH EXTENDED DIAGNOSTICS, 1550-NM TX, 1310-NM RX, SINGLE-MODE, 10 KM, LC
LFP421	SFP, 1250-MBPS SIMPLEX FIBER WITH EXTENDED DIAGNOSTICS, 1310-NM TX, 1550-NM RX, SINGLE-MODE, 10 KM, LC
LFP401	SFP, 155-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 850-NM MULTIMODE, 2 KM, LC
LFP402	SFP, 155-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 1310-NM MULTIMODE, 2 KM, LC
LFP403	SFP, 155-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 1310-NM SINGLE-MODE, 30 KM, LC
LFP404	SFP, 155-MBPS FIBER WITH EXTENDED DIAGNOSTICS, 1310-NM SINGLE-MODE, 60 KM, LC



# SPECIFICATIONS

## GBE MANAGED SWITCH – 28-PORT (LGB5028A-R2)

FRONT VIEW



BACK VIEW



## WHAT'S INCLUDED WITH THE 28-PORT SWITCH

- (1) 28-PORT GIGABIT ETHERNET (GBE) MANAGED SWITCH
- (2) RACKMOUNT BRACKETS AND HARDWARE
- (1) AC POWER CORD
- (1) DB9 CONSOLE CABLE
- (4) ADHESIVE RUBBER FEET
- (1) INSTALLATION AND GETTING STARTED GUIDE

GBE MANAGED SWITCH - 28-PORT (LGB5028A-R2)	
APPROVALS	FCC Part 15 Class A, CE, RoHS
HARDWARE PERFORMANCE	
FORWARDING CAPACITY	95.232 Mpps
SWITCHING CAPACITY	128 Gbps
MAC TABLE	32 K
JUMBO FRAMES	10056 bytes
MECHANICAL	
CONNECTORS	(28) 10/100/1000 RJ-45 ports, (4) 1G/10G SFP+ slots, (1) DB9 console port, (1) 3-prong power outlet
INDICATORS	(2) Mode LEDs, (1) System LED, (24) Port Status LEDs, (24) Link/Activity LEDs, (24) Speed LEDs, (4) FO Link/Activity LEDs, (4) FO Speed LEDs
USER CONTROLS	(1) Mode button
POWER	Voltage: 100–240 VAC: Frequency: 50–60 Hz
DIMENSIONS	1.73"H x 17.4"W x 8.3" D (4.4 x 44.2 x 21.1 cm)
WEIGHT	5.3 lb. (2.4 kg)
ENVIRONMENTAL	Operating Temperature: 32 to 104° F (0 to 40° C); Storage Temperature: -4 to +158° F (-20 to +70° C); Operating Humidity: 10 to 90% noncondensing; Altitude: <10000 ft. (<3000 m)
SOFTWARE FEATURES	
DHCP RELAY	• Relay of DHCP traffic to DHCP server in different VLAN • Works with DHCP Option 82
IGMP V1/V2/V3 SNOOPING	IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups

# SPECIFICATIONS

## GBE MANAGED SWITCH – 28-PORT (LGB5028A-R2)

GBE MANAGED SWITCH - 28-PORT (LGB5028A-R2) SOFTWARE FEATURES	
<b>LAYER 2 SWITCHING</b>	
<b>SPANNING TREE PROTOCOL</b>	Standard Spanning Tree 802.1d; Rapid Spanning Tree (RSTP) 802.1w; Multiple Spanning Tree (MSTP) 802.1s
<b>TRUNKING</b>	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; • Up to 14 groups; • Up to 8 ports per group
<b>VLAN</b>	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) • Port-based VLAN • 802.1Q tag-based VLAN • MAC-based VLAN • Management VLAN • Private VLAN Edge (PVE) • Q-in-Q (double tag) VLAN • Voice VLAN • GARP VLAN Registration Protocol (GVRP)
<b>IGMP QUERIER</b>	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
<b>IGMP PROXY</b>	IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router
<b>MLD V1/V2 SNOOPING</b>	Delivers IPv6 multicast packets only to the required receivers
<b>DEVICE MANAGEMENT SYSTEM (DMS)</b>	
<b>GRAPHICAL MONITORING</b>	• Topology view: Support intuitive way to configure and manage switches and devices with visual relations • Floor view: It's easy to drag and drop PoE devices and help you to build smart workforces • Map view: Enhance efficiency to drag and drop devices and monitor surroundings on google map
<b>FIND MY SWITCH</b>	Search your real switches quickly and manage directly
<b>TRAFFIC MONITORING</b>	Display visual chart of network traffic of all devices and monitor every port at any time from switches
<b>TROUBLESHOOTING</b>	• Network diagnostic between master switch and devices • Support protection mechanism, such as rate-limiting to protect your devices from brute-force downloading
<b>LAYER 3 SWITCHING</b>	
<b>IPv4 STATIC ROUTING</b>	IPv4 Unicast: Static routing
<b>IPv6 STATIC ROUTING</b>	IPv6 Unicast: Static routing
<b>SECURITY</b>	
<b>SECURE SHELL (SSH)</b>	SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported
<b>SECURE SOCKETS LAYER (SSL)</b>	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch
<b>IEEE 802.1X</b>	• IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions • Supports IGMP-RADIUS based 802.1X • Dynamic VLAN assignment
<b>LAYER 2 ISOLATION PRIVATE VLAN EDGE</b>	PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
<b>PORT SECURITY</b>	Prevents illegal IP address from accessing to specific port in the switch
<b>IP SOURCE GUARD</b>	±1 kV
<b>RADIUS/ TACACS+</b>	Supports RADIUS and TACACS+ authentication. Switch as a client
<b>STORM CONTROL</b>	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
<b>DHCP SNOOPING</b>	A feature acts as a firewall between untrusted hosts and trusted DHCP servers
<b>ACLs</b>	Supports up to 512 entries. Drop or rate limitation based on: • Source and destination MAC, VLAN ID or IP address, protocol, port, • Differentiated services code point (DSCP) / IP precedence • TCP/ UDP source and destination ports • 802.1p priority • Ethernet type • Internet Control Message Protocol (ICMP) packets • TCP flag



# SPECIFICATIONS

## GBE MANAGED SWITCH – 28-PORT (LGB5028A-R2)

GBE MANAGED SWITCH - 28-PORT (LGB5028A-R2) SOFTWARE FEATURES	
<b>QUALITY OF SERVICE</b>	
<b>HARDWARE QUEUE</b>	Supports 8 hardware queues
<b>SCHEDULING</b>	<ul style="list-style-type: none"><li>• Strict priority and weighted round-robin (WRR)</li><li>• Queue assignment based on DSCP and class of service</li></ul>
<b>CLASSIFICATION</b>	<ul style="list-style-type: none"><li>• Port based</li><li>• 802.1p VLAN priority based</li><li>• IPv4/IPv6 precedence / DSCP based</li><li>• Differentiated Services (DiffServ)</li><li>• Classification and re-marking ACLs</li></ul>
<b>RATE LIMITING</b>	<ul style="list-style-type: none"><li>• Ingress policer</li><li>• Egress shaping and rate control</li><li>• Per port</li></ul>
<b>MANAGEMENT</b>	
<b>DHCP SERVER</b>	Support DHCP server to assign IP to DHCP clients
<b>ZERO TOUCH UPGRADE</b>	Upgrade single switch automatically when you get notification
<b>REMOTE MONITORING (RMON)</b>	Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
<b>PORT MIRRORING</b>	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
<b>UPNP</b>	The Universal Plug and Play Forum, an industry group of companies working to enable device-to-device interoperability by promoting Universal Plug and Play
<b>S-FLOW</b>	The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats
<b>IEEE 802.1AB (LLDP)</b>	<ul style="list-style-type: none"><li>• Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network</li><li>• Support LLDP-MED extensions</li></ul>
<b>WEB GUI INTERFACE</b>	Built-in switch configuration utility for browser-based device configuration
<b>CLI</b>	For users to configure/manage switches in command line modes
<b>DUAL IMAGE</b>	Independent primary and secondary images for backup while upgrading
<b>SNMP</b>	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
<b>FIRMWARE UPGRADE</b>	<ul style="list-style-type: none"><li>• Web browser upgrade (HTTP/ HTTPS) and TFTP</li><li>• Upgrade through console port as well</li></ul>
<b>NTP</b>	Network Time Protocol (NTP) is a networking protocol for clock synchronization between computer systems over packet-switched
<b>OTHER MANAGEMENT</b>	<ul style="list-style-type: none"><li>• HTTP/HTTPS; SSH</li><li>• DHCP Client/ DHCPv6 Client</li><li>• Cable Diagnostics</li><li>• Ping</li><li>• Syslog</li><li>• Telnet Client</li><li>• IPv6 Management</li></ul>



# SPECIFICATIONS

## GBE MANAGED SWITCH – 52-PORT (LGB5052A)

FRONT VIEW



BACK VIEW



### WHAT'S INCLUDED WITH THE 52-PORT SWITCH

- (1) 52-PORT GIGABIT ETHERNET (GBE) MANAGED SWITCH
- (2) RACKMOUNT BRACKETS AND HARDWARE
- (1) AC POWER CORD
- (1) RJ-45 CONSOLE CABLE
- (4) ADHESIVE RUBBER FEET
- (1) INSTALLATION AND GETTING STARTED GUIDE

GBE MANAGED SWITCH - 52-PORT (LGB5052A)	
APPROVALS	FCC Part 15 Class A, CE, RoHS
HARDWARE PERFORMANCE	
FORWARDING CAPACITY	130.95 Mpps
SWITCHING CAPACITY	176 Gbps
MAC TABLE	32 K
JUMBO FRAMES	10056 bytes
MECHANICAL	
CONNECTORS	(48) 10/100/1000 RJ-45 ports, (4) 1G/10G SFP+ slots, (1) RJ-45 console port, (1) 3-prong power outlet
INDICATORS	(2) Mode LEDs, (1) System LED, (48) Port Status LEDs, (48) Link/Activity LEDs, (48) Speed LEDs, (4) FO Link/Activity LEDs, (4) FO Speed LEDs
USER CONTROLS	(1) Mode button
POWER	Voltage: 100–240 VAC; Frequency: 50–60 Hz
DIMENSIONS	1.73"H x 17.4"W x 11.81" D (4.4 x 44.2 x 30 cm)
WEIGHT	9.3 lb. (4.2 kg)
ENVIRONMENTAL	Operating Temperature: 32 to 104° F (0 to 40° C); Storage Temperature: -4 to +158° F (-20 to +70° C); Operating Humidity: 10 to 90% noncondensing; Altitude: <10000 ft. (<3000 m)
SOFTWARE FEATURES	
DHCP RELAY	• Relay of DHCP traffic to DHCP server in different VLAN • Works with DHCP Option 82
IGMP V1/V2/V3 SNOOPING	IGMP limits bandwidth-intensive multicast traffic to only the requesters. Supports 1024 multicast groups



# SPECIFICATIONS

## GBE MANAGED SWITCH – 52-PORT (LGB5052A)

GBE MANAGED SWITCH - 52-PORT (LGB5052A) SOFTWARE FEATURES	
<b>LAYER 2 SWITCHING</b>	
<b>SPANNING TREE PROTOCOL</b>	Standard Spanning Tree 802.1d; Rapid Spanning Tree (RSTP) 802.1w; Multiple Spanning Tree (MSTP) 802.1s
<b>TRUNKING</b>	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; • Up to 26 groups; • Up to 4 ports per group
<b>VLAN</b>	Supports up to 4K VLANs simultaneously (out of 4096 VLAN IDs) • Port-based VLAN • 802.1Q tag-based VLAN • MAC-based VLAN • Management VLAN • Private VLAN Edge (PVE) • Q-in-Q (double tag) VLAN • Voice VLAN • GARP VLAN Registration Protocol (GVRP)
<b>IGMP QUERIER</b>	IGMP querier is used to support a Layer 2 multicast domain of snooping switches in the absence of a multicast router
<b>IGMP PROXY</b>	IGMP snooping with proxy reporting or report suppression actively filters IGMP packets in order to reduce load on the multicast router
<b>MLD V1/V2 SNOOPING</b>	Delivers IPv6 multicast packets only to the required receivers
<b>DEVICE MANAGEMENT SYSTEM (DMS)</b>	
<b>GRAPHICAL MONITORING</b>	• Topology view: Support intuitive way to configure and manage switches and devices with visual relations • Floor view: It's easy to drag and drop PoE devices and help you to build smart workforces • Map view: Enhance efficiency to drag and drop devices and monitor surroundings on google map
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<b>LAYER 3 SWITCHING</b>	
<b>IPv4 STATIC ROUTING</b>	IPv4 Unicast: Static routing
<b>IPv6 STATIC ROUTING</b>	IPv6 Unicast: Static routing
<b>SECURITY</b>	
<b>SECURE SHELL (SSH)</b>	SSH secures Telnet traffic in or out of the switch, SSH v1 and v2 are supported
<b>SECURE SOCKETS LAYER (SSL)</b>	SSL encrypts the http traffic, allowing advanced secure access to the browser-based management GUI in the switch
<b>IEEE 802.1X</b>	• IEEE802.1X: RADIUS authentication, authorization and accounting, MD5 hash, guest VLAN, single/multiple host mode and single/multiple sessions • Supports IGMP-RADIUS based 802.1X • Dynamic VLAN assignment
<b>LAYER 2 ISOLATION PRIVATE VLAN EDGE</b>	PVE (also known as protected ports) provides L2 isolation between clients in the same VLAN. Supports multiple uplinks
<b>PORT SECURITY</b>	Prevents illegal IP address from accessing to specific port in the switch
<b>IP SOURCE GUARD</b>	±1 kV
<b>RADIUS/ TACACS+</b>	Supports RADIUS and TACACS+ authentication. Switch as a client
<b>STORM CONTROL</b>	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
<b>DHCP SNOOPING</b>	A feature acts as a firewall between untrusted hosts and trusted DHCP servers
<b>ACLS</b>	Supports up to 512 entries. Drop or rate limitation based on: • Source and destination MAC, VLAN ID or IP address, protocol, port, • Differentiated services code point (DSCP) / IP precedence • TCP/ UDP source and destination ports • 802.1p priority • Ethernet type • Internet Control Message Protocol (ICMP) packets • TCP flag



# SPECIFICATIONS

## GBE MANAGED SWITCH – 52-PORT (LGB5052A)

GBE MANAGED SWITCH - 52-PORT (LGB5052A) SOFTWARE FEATURES	
<b>QUALITY OF SERVICE</b>	
<b>HARDWARE QUEUE</b>	Supports 8 hardware queues
<b>SCHEDULING</b>	<ul style="list-style-type: none"> <li>• Strict priority and weighted round-robin (WRR)</li> <li>• Queue assignment based on DSCP and class of service</li> </ul>
<b>CLASSIFICATION</b>	<ul style="list-style-type: none"> <li>• Port based</li> <li>• 802.1p VLAN priority based</li> <li>• IPv4/IPv6 precedence / DSCP based</li> <li>• Differentiated Services (DiffServ)</li> <li>• Classification and re-marking ACLs</li> </ul>
<b>RATE LIMITING</b>	<ul style="list-style-type: none"> <li>• Ingress policer</li> <li>• Egress shaping and rate control</li> <li>• Per port</li> </ul>
<b>MANAGEMENT</b>	
<b>DHCP SERVER</b>	Support DHCP server to assign IP to DHCP clients
<b>ZERO TOUCH UPGRADE</b>	Upgrade single switch automatically when you get notification
<b>REMOTE MONITORING (RMON)</b>	Embedded RMON agent supports RMON groups 1,2,3,9 (history, statistics, alarms, and events) for enhanced traffic management, monitoring and analysis
<b>PORT MIRRORING</b>	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to N-1 (N is Switch's Ports) ports can be mirrored to single destination port. A single session is supported.
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<b>S-FLOW</b>	The industry standard for monitoring high speed switched networks. It gives complete visibility into the use of networks enabling performance optimization, accounting/billing for usage, and defense against security threats
<b>IEEE 802.1AB (LLDP)</b>	<ul style="list-style-type: none"> <li>• Used by network devices for advertising their identities, capabilities, and neighbors on an IEEE 802ab local area network</li> <li>• Support LLDP-MED extensions</li> </ul>
<b>WEB GUI INTERFACE</b>	Built-in switch configuration utility for browser-based device configuration
<b>CLI</b>	For users to configure/manage switches in command line modes
<b>DUAL IMAGE</b>	Independent primary and secondary images for backup while upgrading
<b>SNMP</b>	SNMP version1, 2c and 3 with support for traps, and SNMP version 3 user-based security model (USM)
<b>FIRMWARE UPGRADE</b>	<ul style="list-style-type: none"> <li>• Web browser upgrade (HTTP/ HTTPS) and TFTP</li> <li>• Upgrade through console port as well</li> </ul>
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<b>OTHER MANAGEMENT</b>	<ul style="list-style-type: none"> <li>• HTTP/HTTPS; SSH</li> <li>• DHCP Client/ DHCPv6 Client</li> <li>• Cable Diagnostics</li> <li>• Ping</li> <li>• Syslog</li> <li>• Telnet Client</li> <li>• IPv6 Management</li> </ul>





## COMPATIBLE 10G ACTIVE OPTICAL CABLES (AOCs) FOR NETWORKING

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Black Box® SFP+ Active Optical Cables provide premium, error-free performance for data, storage, and high-performance computing (HPC) interconnectivity. 100% compatible to Cisco® SFP-10G-AOCxM= Active Optical Cables, these cables connect your Cisco switches, routers, and servers. Constructed for full compliance with the SFP+ Multi-Source Agreement (MSA) and SFF-8431 industry standards, you can also make connections among your non-Cisco, 10G compatible networking equipment. Programmed, tested and serialized to ensure compliance and functionality, Black Box Active Optical Cables are the ideal solution for 10G Ethernet, Infiniband (QDR, SDR, DDR), Fiber Channel applications and more.

COMPATIBLE 10G ACTIVE OPTICAL CABLES FOR NETWORKING	
LENGTH	PRODUCT CODE
1-m	SFP-10G-AOC1M-BB
2-m	SFP-10G-AOC2M-BB
3-m	SFP-10G-AOC3M-BB
5-m	SFP-10G-AOC5M-BB
7-m	SFP-10G-AOC7M-BB
10-m	SFP-10G-AOC10M-BB

## COMPATIBLE 10G DIRECT ATTACH CABLES (DACs) FOR NETWORKING

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Black Box® 10G Direct Attach Cables provide premium, error-free performance for data, storage, and high-performance computing (HPC) interconnectivity. 100% compatible to Cisco® SFP-H10GB-CUxM= Direct Attach Cables, these cables connect your Cisco switches, routers, and servers. Constructed for full compliance with the SFP+ Multi-Source Agreement (MSA) and SFF-8431 industry standards, you can also make connections among your non-Cisco, 10G compatible networking equipment. Programmed, tested and serialized to ensure compliance and functionality, Black Box Direct Attach Cables are the ideal solution for 10G Ethernet and Fiber Channel applications and more.

COMPATIBLE 10G DIRECT ATTACH CABLES FOR NETWORKING	
LENGTH	PRODUCT CODE
50-cm	SFP-H10GB-CU50CM-BB
1-m	SFP-H10GB-CU1M-BB
1.5-m	SFP-H10GB-CU1M5-BB
2-m	SFP-H10GB-CU2M-BB
3-m	SFP-H10GB-CU3M-BB
5-m	SFP-H10GB-CU5M-BB

