

AdaptaSwitch™ 600XC

2Fx/2U

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Overview and Description:

The AdaptaSwitch™ 600XC described here provides two UTP drop-off/insertion points for connections to other workstations, servers and switches with the functionality of a fiber repeater via two fiber ports. It features two 10/100 auto-sensing RJ45 style UTP ports and two switched Fast Ethernet fiber ports that operate in half or full duplex. The following multimode and single-mode models are described here:

Model	Fiber	Distance (HD)	Distance (FD)
LB6540A	MM,SC	412m/1,350 ft.	2km/1.2 mi.
LB6540A-SM	SM,SC	412m/1,350 ft.	28km/16.8 mi.
LB6541A	MM,ST	412m/1,350 ft.	2km/1.2 mi.
LB6541A-SM	SM,ST	412m/1,350 ft.	28km/16.8 mi.
LB6540A-SM-LH	SM,SC	412m/1,350 ft.	58km/35 mi.

Installation and Configuration:

Power Adapter Notice:

1. This Model uses internal power supplies that are capable of auto switching from 100-230V, and are supplied with a U.S. type NEMA 5-15 power cable.
2. For products being shipped outside of the U.S., the user is required to install a properly grounded IEC 320-appliance cable with a minimum rating of 10 AMPs.
3. User-supplied cables must meet the required safety agency approvals, applicable international standards and electrical ratings for the region.

WARNING!

Before inserting the Power cord, verify that the power on the unit is appropriate for your AC line voltage source.

Mounting and Cable Attachment:

The AdaptaSwitch 600XC is designed to be used as a tabletop unit.

UTP Connection:

After connecting to an appropriate power outlet, attach the AdaptaSwitch 600XC UTP ports via category 5 cables to properly configured and operational 10Base-T or 100Base-Tx Ethernet workstations, hubs or switches. Verify that the LEDs display the expected (10 or 100, half or full duplex) status. Note that both UTP ports have a built-in crossover switch that facilitates the usage of a straight-through cable for all applications.

Fiber Connection:

Attach the AdaptaSwitch 600XC via appropriate fiber cables (SC or ST as needed) to a 100Base-Fx Fast Ethernet fiber switches, hubs or workstations. The fiber's transmit (Tx) must attach to the receive side on the opposing device; the receive (Rx) must attach to the transmit. Set the "Half/Full Duplex" switches as needed.

Switch Settings:

UTP "Crossover" Switch: When connecting UTP port 3 or 4 to a hub or switch, set the corresponding switch to "Crossover." When connecting to a workstation, set the corresponding switch to "Straight-Through" (factory setting).

Fiber Full-Duplex (FDX) / Half-Duplex (HDX) Switch:

When the FDX / HDX switches on fiber port 1 or 2 is set to "Half-Duplex", that fiber port operates in half duplex. When set to "Full-Duplex" (factory setting) that fiber port operates in full duplex. Half duplex must be used when connecting to a hub. Full duplex should be used when connecting to a switch or a full-duplex workstation.

Manual Port Configuration with Switches

The AdaptaSwitch 600XC has the ability to configure ports to a particular speed (10 or 100Mbps) or duplex (half/full-duplex) through the use of switches. These Switches are located on the side of the unit and control the two UTP ports. Setting the the switches to "Auto" enables the port to determine the speed and duplex mode automatically. If the connected device cannot provide the proper signal to indicate its own mode of operation, the manual switches should be used. This feature allows connections with devices that do not auto-negotiate properly. Use the following steps to manually configure these ports.

1. Turn off auto-negotiation (Auto) to the desired port by setting the appropriate switch to the manual position (Man).
2. Adjust the 10/100 Mbps switch to the speed of the connecting device and check for link status.
3. Adjust the half/full-duplex switch to accommodate the connecting device and check for link status.

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LED Indicators:

Func.	Color	Description
UTP:	Yellow /Green	Yellow On: 10 Green On: 100 Yellow or Green Flashing: Activity detected
FD/HD:	Green	Off: Set to Half-Duplex On: Set to Full-Duplex
Fiber:	Green	Off: No Link detected On: Link detected Flashing: Data Received

Switches:

Description	Function
1-UTP Crossover:	Straight / Crossed
2-UTP Auto:	Auto-Negotiation / Manual
3-UTP 10/100:	10 Mbps / 100 Mbps
4-UTP Duplex:	Full-Duplex / Half-Duplex
5-Fiber Duplex:	Full-Duplex / Half-Duplex

Supported Distances:

Cable Type	Half-Duplex	Full-Duplex
Twisted Pair UTP:	100m./328ft.	100m./328ft.
Multi-mode:	412m/1,350ft.	2Km/1.2mi.
Single-mode:	412m/1,350ft.	28Km/16.8mi.
Single-mode LH:	412m/1,350ft.	58Km/36mi.

Dimensions / Weight: W:6.5"xD:8.0"xH:1.75" / 1.5lb.
Power: 110/230VAC, 50/60Hz, 300mA
Operating Temp: 0 to 40 degrees C
Storage Temp: -40 to 75 degrees C
Humidity: 0-90% (non-condensing)

TRADEMARKS

All applied-for and registered trademarks are the property of their respective owners.

FEDERAL COMMUNICATIONS COMMISSION AND CANADIAN DEPARTMENT OF COMMUNICATIONS RADIO FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to be cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par le ministère des Communications du Canada.

NORMAS OFICIALES MEXICANAS (NOM)

ELECTRICAL SAFETY STATEMENT

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc.
6. El aparato eléctrico debe ser usado únicamente con carritos o pedales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá a lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.

12. Precación debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
 - A: El cable de poder o el contacto ha sido dañado; u
 - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
 - C: El aparato ha sido expuesto a la lluvia; o
 - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
 - E: El aparato ha sido tirado o su cubierta ha sido dañada.

LED Indicators:

Func.	Color	Description
UTP:	Yellow /Green	Yellow On: 10 Green On: 100 Yellow or Green Flashing: Activity detected
FD/HD:	Green	Off: Set to Half-Duplex On: Set to Full-Duplex
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Description	Function
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Supported Distances:

Cable Type	Half-Duplex	Full-Duplex
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040-01011-002 11/01

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Fiber Full-Duplex (FDX) / Half-Duplex (HDX) Switch:

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Manual Port Configuration with Switches

The AdaptaSwitch 600XC has the ability to configure ports to a particular speed (10 or 100Mbps) or duplex (half/full-duplex) through the use of switches. These Switches are located on the side of the unit and control the two UTP ports. Setting the the switches to "Auto" enables the port to determine the speed and duplex mode automatically. If the connected device cannot provide the proper signal to indicate its own mode of operation, the manual switches should be used. This feature allows connections with devices that do not auto-negotiate properly. Use the following steps to manually configure these ports.

1. Turn off auto-negotiation (Auto) to the desired port by setting the appropriateswitch to the manual position (Man).
2. Adjust the 10/100 Mbps switch to the speed of the connecting device and check for link status.
3. Adjust the half/full-duplex switch to accommodate the connecting device and check for link status.

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040-01011-002 07/10/00