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**FEDERAL COMMUNICATIONS COMMISSION
AND
INDUSTRY CANADA
RADIO FREQUENCY INTERFERENCE STATEMENT**

Class B Digital Device. This equipment has been tested and found to comply with the limits for a Class B computing device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. If this equipment does cause harmful interference to radio or telephone reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an experienced radio/TV technician for help.

Caution:

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

To meet FCC requirements, shielded cables and power cords are required to connect this device to a personal computer or other Class B certified device.

This digital apparatus does not exceed the Class B limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of IndustryCanada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.



This unit is CE certified.

TRADEMARKS

Centronics® is a registered trademark of GENICOM Corporation.

IBM® is a registered trademark of International Business Machines Corporation.

Windows® is a registered trademark of Microsoft Corporation.

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

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1. Specifications

Compatibility — *Hardware:* All devices with Centronics® compatible interfaces;
Software: All known PC software including Windows® and graphics

Cable Type — Uses standard PC printer cables (25-pin-male-to-36-pin-male)

Cable Lengths — PC to Intelligent Printer Switch: 22.9 ft. (7 m) max.; Intelligent Printer Switch to PC: 22.9 ft. (7 m) max.

Performance — 75,000 characters per second; Interface Matching Technology for maximum printing speed

Options — (Selectable with option switches mounted on the underside of the unit) *Timeout:* 8 seconds, 16 seconds, 1 minute, or 2 minutes; *End-of-file form feed:* Inserts form feed at end of each print job

Indicators — (2) LEDs: (1) Power (green) and (1) Activity (red)

Connectors — *SW135A/AE:*
(2) 36-pin Centronics female,
(1) DB25 female; *SW136A/SE:*
(4) 36-pin Centronics female,
(1) DB25 female; *SW137A/AE:*
(6) 36-pin Centronics female,
(1) DB25 female

Power — 120- or 230-VAC; 5-VDC, 200 mA output

Size — 3.7" H x 9"W x 1.4"D
(9.5 x 23 x 3.5 cm)

Weight — 1.1 lb. (0.5 kg)

2. Introduction

The Intelligent Printer Switch is a fast, automatic data switch that lets you share a printer between two (SW135A/AE), four (SW136A/AE), or six (SW137A/AE) computers. It is fully compatible with all computers, printers, and plotters that support standard Centronics parallel interfaces. Since the Switch operates at high speeds, your print data never slows down. In fact, with some systems, you may notice faster speeds than before you installed the Switch.

Package Includes

Your Intelligent Printer Switch includes the following:

- Intelligent Printer Switch 2 to 1 Parallel (SW135A or SW135AE), or 4 to 1 Parallel (SW136A or SW136AE), or 6 to 1 Parallel (SW137A or SW137AE)
- 12- VAC (for -A models) or 230- VAC (for -AE models) power supply rated at 200 mA, 5 VDC

3. Installation

You will need an IBM® style parallel printer cable (25-pin-male-to-36-pin-male), such as part number EYN600, for each computer and printer that you wish to connect to the Intelligent Printer Switch (see the **Appendix** for port specifications). Try to limit the length of the cables to 22.9 ft. (7 m).

Set the options to those required by your system using the four option switches accessible from the underside of the Intelligent Printer Switch. The default settings shown below are suitable for most systems. See **Section 4.1** for more details.

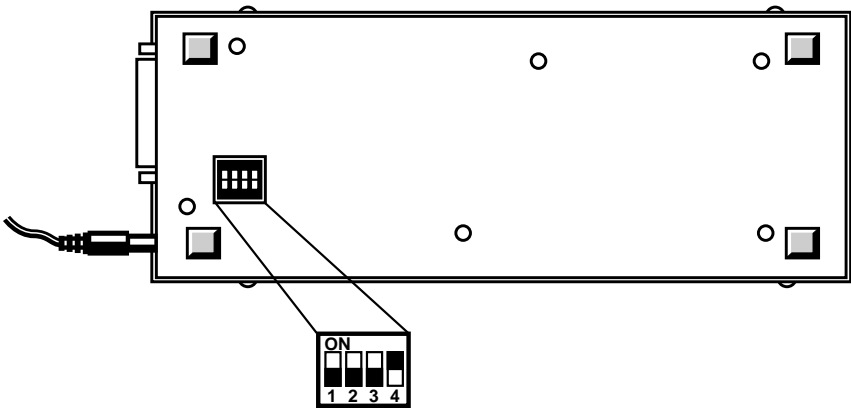


Figure 3-1. Default Option Settings.

- Switch off your computers and printers before you connect cables.
- Connect your computers and printer to the Intelligent Printer Switch. (The printer cable connects to the DB25 socket on the side of the IPS, next to the power connector.)
- Switch on your computers and then your printer.
- Connect the power adapter to the Intelligent Printer Switch and to the mains power supply.

The Power indicator will light and the Status indicator will flash for a few seconds while the switch runs a self-test. The Intelligent Printer Switch is now ready to use.

4. Operation

Print to the Intelligent Printer Switch in the same way that you would normally print to a printer. Your data will be automatically sent to the printer.

If several users wish to send data, the switch will operate on a first-come-first-served basis. The first computer to send data will be connected through to the printer, and the others will have to wait (a “printer busy” signal will be sent to these computers). When the first computer’s printout is finished, and after the timeout delay, the next computer will automatically connect to the printer.

The Status indicator shows the following during normal operation:

- *OFF*—No data is being transferred.
- *ON*—No data is being transferred, timeout is pending.
- *FLASHING*—Data is being transferred to the printer.

4.1 Option Settings

You can access the option switches from the underside of the Intelligent Printer Switch. These switches are read only when the Intelligent Printer Switch is first powered on. Set the options to those required by your system.

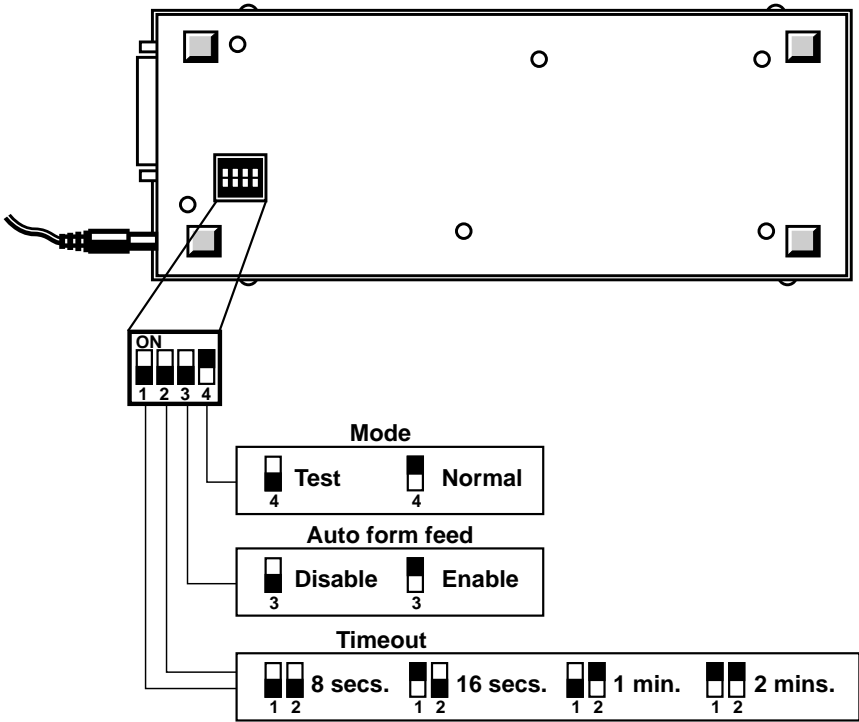


Figure 4-1. Option-Switch Settings.

TIMEOUT

The timeout period is the amount of time that the Intelligent Printer Switch will wait after the end of data transmission before switching to another computer. A timeout period of 8 seconds is suitable for most systems.

AUTO FORM FEED

When the auto form feed function is enabled, the Intelligent Printer Switch will send a form feed instruction to the printer at the end of each user's print job (after timeout).

MODE

Set this switch to the normal position unless you wish to test the Intelligent Printer Switch or a cable.

4.2 Testing the Intelligent Printer Switch/Testing a Cable

The Intelligent Printer Switch supports a test mode that enables you to verify the correct operation of the unit and your cable. All Intelligent Printer Switches are fully tested at the factory.

1. Disconnect all cables from the Intelligent Printer Switch and disconnect the power.
2. Set all the option switches to the OFF position.
3. Power on the Intelligent Printer Switch—the power indicator will flash to indicate that the unit is in test mode.
4. Connect the cable you wish to test from any computer port to the printer port. If the cable and the Intelligent Printer Switch are functioning correctly, the status indicator will flash.
5. To test all the computer ports, plug the cable into each one in turn without powering off the Intelligent Printer Switch.

Power off the Intelligent Printer Switch and return the mode switch to the normal position before using the Intelligent Printer Switch as a print sharer.

Appendix: Port Specifications

Table A-1. Port Specifications.

Signal	IPS Printer Port (25-pin female)	IPS Computer Port (36-pin female)
STROBE	1	1
DATA 0-7	2-9	2-9
ACKNOWLEDGE	10	10
BUSY	11	11
PAPER END	12	12
SELECT	13	13
AUTOFEEDXT	14	14
ERROR	15	32
INIT	16	31
SELECT IN	17	36
SIGNAL GROUND	18-25	16, 33, 19-30
FRAME GROUND	—	17
LOGIC HIGH	—	18

NOTES

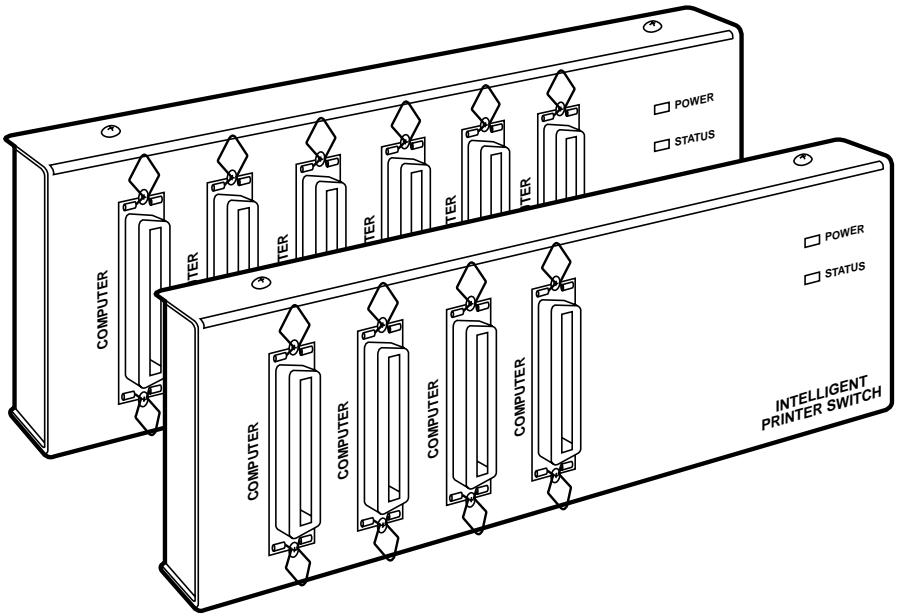
**NORMAS OFICIALES MEXICANAS (NOM)
ELECTRICAL SAFETY STATEMENT****INSTRUCCIONES DE SEGURIDAD**

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 pedestales 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. Precaución 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.



Intelligent Printer Switch



**CUSTOMER
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INFORMATION**

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