



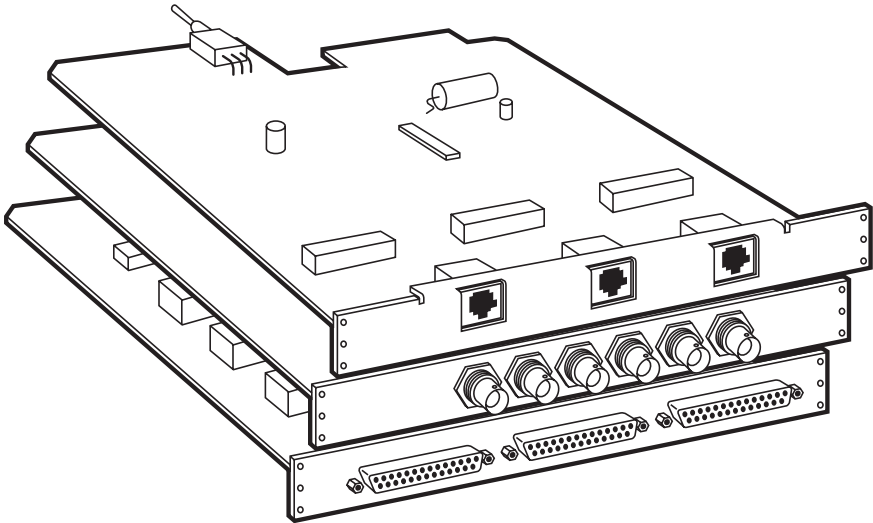
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SM601C	SM606C	SM611C	SM616C
SM602C	SM607C	SM612C	SM617C
SM603C	SM608C	SM613C	SM618C
SM604C	SM609C	SM614C	SM621C
SM605C	SM610C	SM615C	

Cards for Network Control Switching System Chassis



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**FEDERAL COMMUNICATIONS COMMISSION
AND
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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 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 Industry Canada.

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

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.

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1. Introduction

1.1 System Description

The system is composed of one primary Network Control Switching Chassis and up to 63 additional extension racks. Modular cards plug into the Chassis. This manual describes these cards.

1.2 Control Cards

Each Chassis within the system must have a control card. The control card supervises each individual chassis in the system using an RS-232 terminal. It is located in slot #16 of each Chassis.

There are two types of control cards: the Master Control Card with Monitor Port (part number SM617C) and the Extension Control Card with Monitor Port (part number SM618C).

1.2.1 MASTER CONTROL CARD

The Master Control Card (part number SM617C) provides control for the entire system. It is located in the primary rack chassis in slot #16 and is addressed #00 (factory preset). There is only one Master Control Card per system, and through the use of Extension Control Cards, it can control up to 64 chassis.

Through a microprocessor, the Master Control Card handles all the execution functions to be performed. It has a lithium battery backed up memory that provides backup of all the stored information for a minimum period of one year in the case of power failure. (The shelf life of a lithium battery is five years.)

The card features two communication ports and one monitoring port:

- **COMM IN** is used for connection to the control terminal. Communication speed is strap-selectable.
- **COMM OUT** is used for connection to the next chassis in the system.
- **MONITORING PORT IN** is the input port for on-line status monitoring, and it is connected to the **MONITORING PORT OUT** on the Power Supply Card.

1.2.2 EXTENSION CONTROL CARD

The Extension Control Card with Monitor Port (part number SM618C) provides the communication link between the primary chassis with the Master Control Card and the extension chassis. Up to 63 extension chassis can be linked via Extension Control Cards. Each Extension Control Card is numbered according to its position in the system, beginning with #01. It has a memory, backed up by a lithium battery that provides backup of all the stored information in case of a power failure for a minimum of one year. (The shelf life of a lithium battery is five years.)

This card features two communication ports and one monitoring port:

- **COMM IN** is used for connection to the previous chassis.
- **COMM OUT** is used for connection to the next chassis in the system.
- **MONITORING PORT IN** is the input port for on-line status monitoring, and it is connected to the **MONITORING PORT OUT** on the Power Supply card.

1.3 Channel Interface Cards

The channel interface cards are placed in slots 0-15.

AB V.35 18-Conductor Card

AB V.35 18-Conductor Card (part number SM601C) switches 18 conductors.

AB V.35 18-Conductor Card with Alarm and Monitor

AB V.35 18-Conductor Card with Alarm and Monitor (part number SM602C) switches 18 conductors, with alarm and monitoring bus.

AB-232 12-Conductor Card

AB-232 12-Conductor Card (part number SM603C) switches 11 conductors, F/F.

AB-232 12-Conductor Card with Alarm and Monitor

AB-232 12-Conductor Card with Alarm and Monitor (part number SM604C) switches 11 conductors, with alarms and monitoring bus and lead status indicators, F/F.

AB-232 24-Conductor Card

AB-232 24-Conductor Card (part number SM605C), switches 23 conductors, F/F.

CARDS FOR NETWORK CONTROL SWITCHING CHASSIS

AB-232 24-Conductor Card with Alarm and Monitor

AB-232 24-Conductor Card with Alarm and Monitor (SM606C) switches 23 conductors, with alarms and monitoring bus and lead status indicators, F/F.

X-232 24-Conductor Card (part number SM607C)

AB Coax BNC Card (part number SM608C)

AB Twinaxial Card (2 slots) (part number SM609C)

AB WANG® Compatible BNC/TNC Card (part number SM610C)

AB Double Coax Card (part number SM611C)

AB RJ-11 (4-wire) Card (part number SM612C)

AB RJ-45 (8-wire) Card (part number SM613C)

AB V.F 4-Conductor Terminal Strip (part number SM614C)

AB DB9 Card (part number SM615C)

AB DB15 (T-1) Card (part number SM616C)