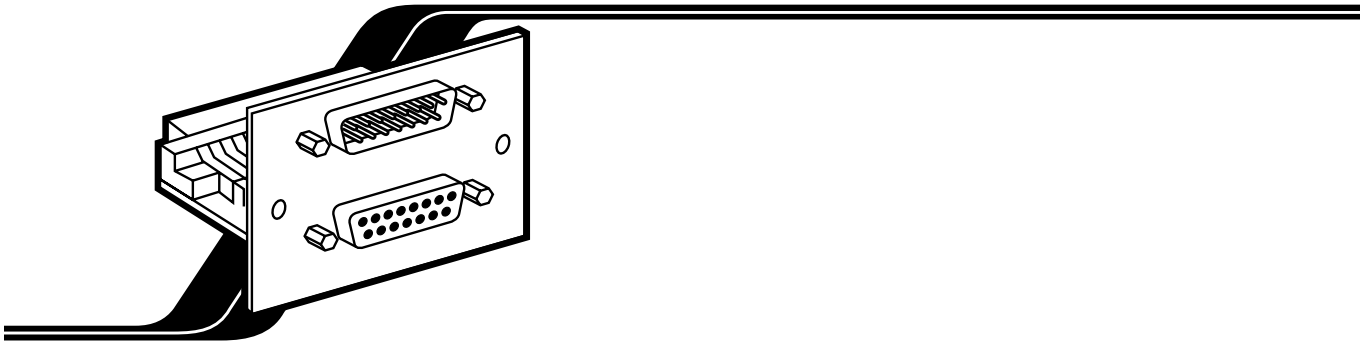
BLACK BOX®
NETWORK SERVICES

JULY 2000
SW740C-R3-B

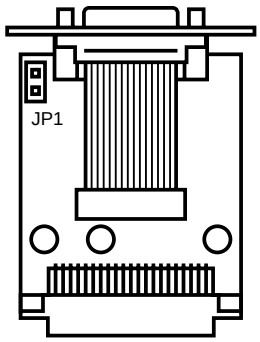
Expansion Module for Matrix ServSwitch™



Install an Expansion Module for Matrix ServSwitch™ (our product code SW740C-R3-B) in your Switch unit to prepare that Switch to be interconnected (daisychained) with other Matrix ServSwitches in your system. Each Module has two DB15 connectors, as shown in the illustration above: The top one, IN, is female and receives video signals from other Switches; the bottom one, OUT, is male and transmits video signals to other Switches.

Before you install Expansion Modules in a daisychained Matrix ServSwitch system, you might need to set the Modules' RING/BUS jumpers, depending on the topology of your daisychain (see **Section 3.4.2** of your Switch manual). If the daisychain is laid out in a bus topology, you won't need to set these jumpers—skip ahead to the next page. But if your daisychain is laid out in a ring topology, you'll need to set the RING/BUS jumpers to the RING (off) setting on the Expansion Modules you'll be installing in *any two adjacent Switches in the ring* (Switches one and two, or two and three, or three and four, etc.).

As shown in the figure below, the RING/BUS jumper (labeled "JP1") is just behind the DB15 IN and OUT connectors at the front of the Module. In the jumper's original shipped-from-the-factory state, it is set to BUS (the jumper covers both posts), which is the appropriate setting for the bus topology. Set it to RING—on the Modules that will go in two adjacent units only—by moving the jumper so that it covers just one of the posts and leaves the other open. (You could just remove the jumper entirely, but it's a better idea to leave it "hanging" on one post so it can be easily set back to BUS if your system topology changes.) Do *not* set this jumper to RING on only one Switch, on more than two Switches, or on Switches that are not adjacent (that is, not directly linked with an Expansion Cable).

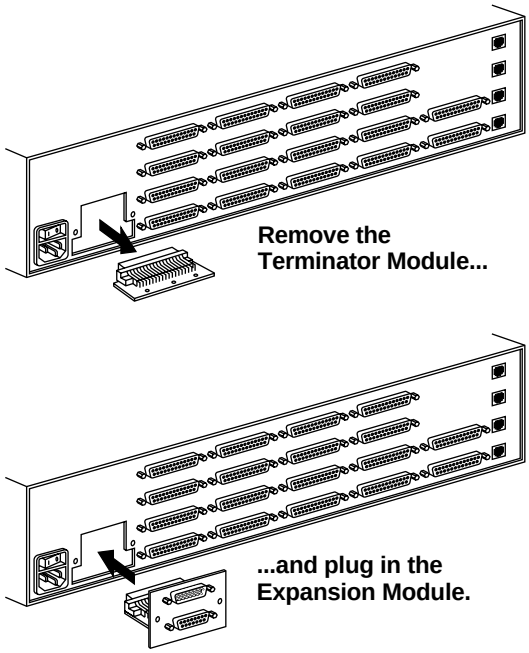


EXPANSION MODULE FOR MATRIX SERVSWITCH™

Once its RING/BUS jumper is set properly, you can swap in the Expansion Module for the Terminator Module that the Switch ships from the factory with. Making sure that the Matrix ServSwitch is turned OFF and unplugged, unscrew and remove any blank plate over the opening of the Switch's Expansion slot (at the far left of the front panel). (You should always have a plate covering this slot when a Terminator Module is in it. If there is a plate, you can save it if you want to, but you shouldn't need it any more; the Expansion Module has its own termination circuitry, so you wouldn't normally ever have to replace it with a Terminator Module, even if you go back to operating the Switch by itself.)

Now, using needlenose pliers or a similar tool, reach far back in the slot (at the level of the slot's widest point) and gently remove any Terminator Module installed in it, as shown in the top figure below. (You should *never* leave the Switch without any module at all installed in this slot, because the Switch will be totally disabled.) Carefully push the Expansion Module into the now-vacant slot, as shown in the bottom figure below—being careful not to pinch the wiring near the internal block connector—and screw the Module on securely.

Once the Expansion Module is installed, you can run Expansion Cables from the Module's IN and OUT ports to your other Switches; see **Section 3.4** of your Matrix ServSwitch manual.



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