

SVMi-4E INSTALLATION

The SVMi-4E is compatible with the DCS Compact, DCS 50si, and the iDCS 100 Samsung Telephone Systems.

DCS Compact Software Compatibility

To operate the SVMi-4E in the DCS Compact you must have the software release listed below or later.

- **BASIC** **4 CHIPS** **00.10.12 V 2.5 or later**
- **CID** **4 CHIPS** **00.10.12 V 2.5 or later**

DCS 50si Software Compatibility

To operate the SVMi-4E in the DCS 50si you must have the software release listed below or later.

- **DCS 50si** **00.09.26 V 1.4 or later**

iDCS 100 Software Compatibility

To operate the SVMi-4E in the iDCS 100 you must have the software release listed below.

- **All versions of the iDCS 100**

System Capacities

DCS Compact

The DCS Compact system can support 32 station devices in a fully expanded system. For the purpose of assigning system resources the SVMi-4E card consumes the equivalent system capacity of 4 keysets. This means that when a SVMi-4E card is installed in the Compact the system can now support a maximum of 28 station devices. This capacity includes keysets, any device connected to a keyset port, SLTs and keyset port, SLTs and keyset daughter boards. As the SVMi-4E card uses a 2x4 card slot the maximum number of trunks will be reduced by 2 to 8 trunks.

DCS 50si

The DCS 50si system must be equipped with a new type power supply to use the SVMi-4E.

To determine the type of power supply installed in the KSU:

- Remove the cover of the KSU. Look through the protective grid over the power supply and locate the serial number.
- Immediately to the right of the serial number locate the power supply part code.
- If this code is CKPS-V1B the power supply is the older type that supports 40 station devices. If this code is CKPS-V1C then the power supply is the newer type that supports up to 56 station devices.

For the purposes of assigning system resources the SVMi-4E card consumes the equivalent system capacity of 4 keysets. This means that when a SVMi-4E card is installed in the DCS 50si the system can now support a maximum of 52 station devices. This capacity includes keysets, any device connected to a keyset port, SLTs and keyset daughter boards.

iDCS 100

The SVMi-4E can be assigned to any Universal slot in either the main iDCS 100 Cabinet, the Expansion A cabinet, or the Expansion B cabinet.

For the purpose of assigning system resources the SVMi-4E card consumes the equivalent system capacity of 4 keysets. This capacity includes keysets, any device connected to a keyset port, SLTs, and keyset daughter boards.

Hardware Description

SVMi-4E Main System

The SVMi-4E system is a compact self contained system that is designed exclusively for the DCS Compact, DCS 50si, and iDCS 100. It can not be used in any other SAMSUNG product.

Only one SVMi-4E card can be installed in a phone system. Do not use other voice mail system in combination with the SVMi-4E.

The main SVMi-4E system is a Single Board Computer with all related DSP circuitry embedded on it.

Back Plane Connectors

These are the connectors to the phone system.

The Serial Interface

On the front of the card there is a single connector. The connector is called the SIO connector and can be used to connect a modem or PC to provide local or remote PC based administration. The use of this connector is optional and it is not necessary to have anything connected in order for the SVMi-4E to process calls.

Reset Button

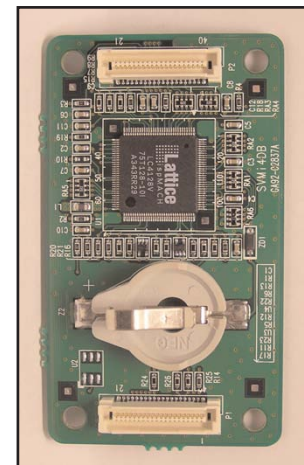
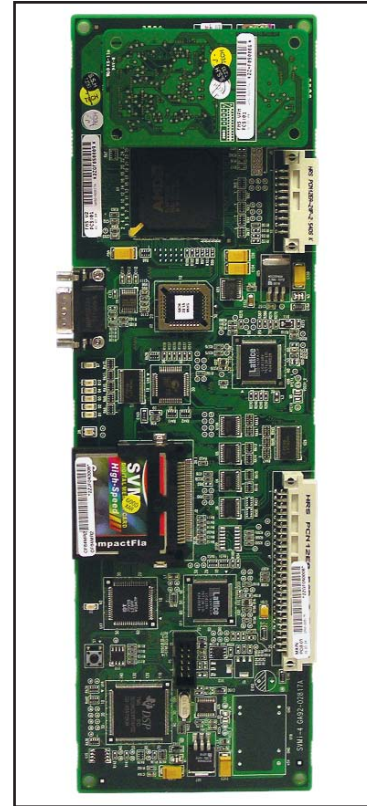
The Black button located on the component side of the PCB half way between the CF and the bottom of the PCB is the reset button. Pressing this will immediately restart the SVMi-4E system and will disconnect any calls in progress.

NOTE: Since pressing the RESET button during operation will disconnect all callers and immediately restart the SVMi-4E, it should only be used as directed. Pressing this button when the system is performing Disk I/O could result in data loss or file corruption. This button should not be pressed if the SVMi-4E is actively processing calls.

Daughter Board (Standard)

The Daughter Board is a small hardware device that piggy backs onto the main SVMi-4E PCB. The Daughter Board comes in two configurations.

1. Daughter Board with circuitry to provide additional 2 Port Licensing.
2. Daughter Board requiring Upgrade Key (i-button) to provide additional 2 Port Licensing. This configuration will not contain the on board circuitry.



The standard configuration contains circuitry (leaving the upgrade Key socket unpopulated) to provide the additional two port license that increases the number of available ports from 2 to 4, and the number of mailboxes from 25 to 100.

An optional configuration of the Daughter Board does not have the circuitry and instead the Upgrade Key socket would be populated with an Upgrade Key.

With either configuration the SVMi-4E can not be expanded beyond 4 ports and 100 mailboxes. This Daughter Board is necessary to use the SVMi-4E in the DCS 50si.

NOTES:

1. The Daughter Board is automatically installed by the factory on every SVMi-4E PCB and is not required to be ordered separately.
2. The Daughter Board configuration is solely determined by the factory.
3. The Daughter Board circuitry and Upgrade Key can not be used simultaneously.

Upgrade Key (Optional)

The upgrade key (also known as i-Button) is a small hardware device installed in the SVMi-4E daughter board card. It provides the license for two additional ports increasing the number of available ports from 2 to 4, and the number of mailboxes from 25 to 100.

The 2 port upgrade key for the SVMi-4E card is available only from SAMSUNG.



NOTES:

1. The SVMi-4E Upgrade Key is proprietary to the SVMi-4 and SVMi-4E. It can NOT be used on any other SVM/SVMi E-Series or non-E Series Products.
2. The Daughter Board configuration is solely determined by the factory.
3. The Daughter Board circuitry and Upgrade Key can not be used simultaneously.

Compact Flash Adaptor (Connector)

This is the connector to install the Compact Flash storage device. The storage device is used to store all system programs and data as well as all Voice messages and greetings.

Memory Access LED

The Memory access LED will flash green whenever the memory is being accessed. This works in a similar way to the Hard disk access LED on a PC.

Run Status LED

The Run Status LED shows the operating status of the card. Green = SVMi-4E running normally, Any other condition indicates a fault.



Data Storage Device (Memory)

The Data Storage device consists of Compact Flash (CF). The current size of this CF is 64 MB. This allows for the Operating System, Application Software, and all the Prompts, Greetings, and Message Storage. The CF for the SVMi-4E is available only from SAMSUNG. To remove or insert a memory card remove the SVMi-4E from the system and then remove the Compact Flash from the SVMi-4E by simply pulling it out.



Installing the SVMi-4E

Inspection

Unpack and inspect the unit for obvious damage. This card should be labeled SVMi-4E. If it is not, you have the wrong card.

Installation

The SVMi-4E card is installed in any Universal Slot (also commonly known as a 2X4 slot or Compact slot) in either the DCS Compact, DCS 50si, or iDCS 100 cabinets.

The first thing you should do before proceeding is to discharge any static electricity you may have gathered by touching a ground point such as the cover of the KSU Power Supply. When you have done this then check the power switch on the KSU and ensure that the switch is in the OFF position. Next position the SVMi-4E card in the grooves of the card guide, and gently slide the card in until it makes contact with the connector. Press gently but firmly on the top and bottom of the front edge of the card until the card seats in its connector. All the power that runs this self contained Voice Mail system comes from the phone system power supply. No special power considerations are necessary. The KSU can now be turned on.

The final step is to press the reset button on the front of the SVMi-4E.

SVMi-4E / Phone System Set Up

After inserting the SVMi-4E card and turning the power on there are some system options that should be set in order for the SVMi-4E to function correctly. These steps are performed in the DCS Compact, DCS 50si, or iDCS 100. It is necessary to perform these at this time so that the SVMi-4E will initialize properly and synchronize its mailbox database with that of the key system. For more information on this see INITIAL SET UP.

ASSIGNING GROUPS All SVMi-4E ports installed must be assigned to a station group. Typically we suggest one of the last groups (though that is not required) 519 on the iDCS 100 or 529 on either the DCS Compact or DCS 50si, in MMC 601.

RING MODE Select either SEQUENTIAL or DISTRIBUTED ring mode in MMC 601. Sequential is suggested.

VMAA PORTS Confirm that all SVMi-4E ports are set for VMAA use in MMC 207. This will be done automatically. You are just confirming at this point.

AUTO ATTENDANT If you are using the SVMi-4E for Auto Attendant, use MMC 406 to set the desired trunk(s) to ring the station group assigned in MMC 601.

CALL FORWARDING If you are using SVMi-4E for Voice Mail make sure that all desired stations are forwarded to the station group assigned in MMC 601.

MAILBOX SET UP Use MMC 741 to select "NO" for each station that you DO NOT want to create a mailbox for.

NOTE: [See MMC references in the SVM/SVMi E-Series Programming Overview documentation for other MMCs that interact with the SVMi-4E.](#)

Testing the Hardware

1. Call each SVMi-4E port individually and confirm that it answers.
2. Call the station group assigned in MMC 601 and confirm that the SVMi-4E answers.

If steps 1 and 2 above proved to be successful you have completed the installation and setup of the SVMi-4E hardware.

You are now ready to begin programming the SVMi-4E Voice Mail/Auto Attendant System.

System Shutdown

Whenever possible the following procedure should be followed when shutting down the SVMi-4E system.

From the main Status Screen (showing activity and port status):

1. Press 'Escape' and enter the password (0000 by default)
2. Select [G] for 'Operating Utilities'
3. Select [D] for 'Shutdown System'
4. Enter Administrator's password (0000 by default)

The SVMi-4E will now shut down. When the system shows a DOS command line you may power off the system and unplug the SVMi-4E.