

Bulletin No.: 162\_OfficeServ\_7100

May 29, 2007

## The New OfficeServ 7100 A SMALL OFFICE IN A BOX



Samsung Telecommunications America is pleased to announce the general availability of the OfficeServ 7100 system. Begin ordering effective on Wednesday, May 30<sup>th</sup>, 2007.

We are expanding the OfficeServ 7000 Series family with the addition of the smaller OfficeServ 7100 targeted for the small businesses. Finally, a small business solution providing — embedded 4 port Voice Mail, VoIP services, IP telephones, CTI applications, Wireless voice and data, Voice Networking and connectivity to the legacy TDM world, all in a single, compact solution. The Linux OS runs both the telephone system and voice mail applications. The OfficeServ 7100 is targeted for the 6 to 24 station market.

The OfficeServ 7100 can be rack-mounted in a standard 19" data rack, wall mounted, or set on a desktop. The compact cabinet design, RJ-45 connectors, and CAT 5 cabling provides easy installation and integrates with existing data equipment.

- **POWERFUL!** Even though it can support up to 32 IP phones, the OfficeServ 7100 still offers the same robust feature set of the other Samsung systems.

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## The New OfficeServ 7100 IP Telephony Communications Platform

- **PLUG-N-PLAY!** The 7100 *Small Business System Package* comes pre-packaged, pre-configured and pre-labeled to make for a quick and fast install. The modular design makes it simple to take it out the box, plug in the daughter modules, plug in the phones, connect the telco lines, and you are up and running with Caller ID name and number, all stations ringing, DSS/BLF buttons on every phone, speed dial and call log working. The six, 28 button iDCS phones that it comes with are already labeled with 4 CO lines and DSS/BLF buttons (squared) on every phone.
- **FLEXIBLE!** This platform is completely flexible. Configure it how your customers need it: TDM or IP Phones, iDCS or DS phones, Analog or Digital Trunks, Converged or Pure IP, Squared or Customized, Main Office or Branch Office, Networked or Standalone.
- **EXPANDABLE!** Grow as your company grows, start small and grow large. This system can be expanded in various combinations of digital phones, IP phones, single line phones or CO lines. Station and trunks can be added over time by way of economical 4 port station/line modules.
- **MANAGING FROM THE SHOP!** Manage your OfficeServ 7100 systems from anywhere in the world using the all new *Installation Tool* for administration and configuration of the phone system. Just download the application from the GSBN web site and you are up and running.

The Voicemail/Automated Attendant can be programmed over the web using the *Web Management Tool*. All you need is Internet Explorer 6.0 and internet/intranet access. The Web Management Server is embedded on the MP10 processor.

- **HEY, VOIP FOR SMALL BUSINESSES!** Remember, the OfficeServ 7100 is an IP TELEPHONY PLATFORM. You can license up to 8 channels of VoIP with the embedded MGI channels. Add a MGI16 to expand up to 24 total MGI channels. The next time your customer demands local IP telephone set deployments, don't let the competition steal the sale. Install up to 32 IP terminals per system (local or remote). You can even power up to 4 IP telephones using the PoE, layer 2 switch module (4SWM).
- **DIGITAL TRUNKS ON THE SMALL END!** Another advantage of the OfficeServ 7100 is it is compatible to work with digital trunks. Use the TEPRIa card to provide ISDN-PRI connectivity to the Central Office. This means up to 23 digital trunks on a very small platform. The PRI service also provides Direct Inward Dialing (DID) that will allow each station user to have their individual published numbers. In some cases, this may eliminate the need for a live or automated attendant to answer incoming calls. Incoming calls are directly routed to the intended user. How about that! DID on a very small system.

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- **CORPORATE COMMUNICATIONS!** Now here is a real solution. The main office has a few employees that work at a branch office(s) location. The 7100 is the perfect fit. The 7100 can be networked to the main office using SPNet over IP or PRI for convenient, cost effective communication back to the corporate headquarters. In addition, use a 4TRM to provide local trunking, 911, and toll bypass from the branch office location.

The OfficeServ 7100 includes all of these functions, PLUS the same, robust, time proven, market tested feature package offered on all the Samsung OfficeServ systems products.

### BENEFITS



- End-to-End Samsung components, Samsung Support and Samsung Training. The Ultimate in One-Stop shopping and maintenance.
- Prepackaged 4 x 8 default system with 6 pre-labeled phones.
- Modular design, Quick and simple to install.
- Standalone or Networked (Main Office or Branch Office)
- Loop Trunks and TDM Stations expandable in cost effective, 4 port increments.
- Embedded 4 ports of enterprise class Voicemail & Automated Attendant.
- Embedded MGI channels (Licensed in 4 port increments, maximum of 8 ports).
- Built-in Common Resources (DTMF senders/receivers, CID DSP senders /receivers, Conference circuits) at no extra cost.

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- 4 port PoE layer 2 data switch for small data applications.
- Uses the same common keyset programming interface (KMMC) from any keyset as all other Samsung telephone systems.
- The OfficeServ 7100 integrates into an existing office data network providing many solutions, such as isolating voice traffic onto the separate data network.
- The OfficeServ 7100 networks (via SPNET over IP or PRI) to other OfficeServ systems (OfficeServ 7400, 7200, 500 or 100).

### NEW OFFICESERV 7100 HARDWARE

- 1. CABINET:** The cabinet comes equipped with a wall mount bracket, AC power cord, cooling fan and power supply, and battery backup cable assembly. The cabinet has a dedicated slot 0 for the MP10 (the Main Processor). The cabinet also has 2 Universal 64 channel Universal slots that used to install the UNI card(s) and other 7200/7400 station/trunk card(s).
- 2. MP10 (MAIN CONTROL PROCESSOR):** The MP10 is the main processor controlling system operation. The MP10 always goes in slot 0 of the cabinet. The MP10 has a LAN port, a MISC port and four RJ45 station/data ports, and a MMC+ card slot on the front panel. MMC+ slot accommodates a 256-MB MMC+ card containing the system software. The MP10 also has expansion slots for the 4SWM or 4DLM card, and modem daughter card connector for mounting the OfficeServ 500 modem daughter card.

**Embedded Voicemail/Automated Ports:** The MP10 card includes 4 ports of embedded Samsung voicemail. The Samsung voicemail is a powerful call routing solution providing both automated attendant and voicemail features:

- 4 channels
- Over 62 hours of voicemail storage
- Up to 100 voicemail subscribers
- Deliver voice messages to any email address as a .wav attachment (E-Mail Gateway).
- AMIS network support

**MGI Channels (Media Gateway Interface):** The MP10 card includes 8 VoIP channels. These embedded channels can be made available by purchasing one or two 4 port license. The embedded MGI supports the following features:

- IP Phones
- IP Networking (Network multiple systems over an IP Network)
- G.729 (8K) Codec, G.723.1, G.711, G.729A Codecs
- IP Trunking (SIP/H.323)

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- T.38 Fax CODEC
- In-band or Out-of-band signaling of DTMF tones

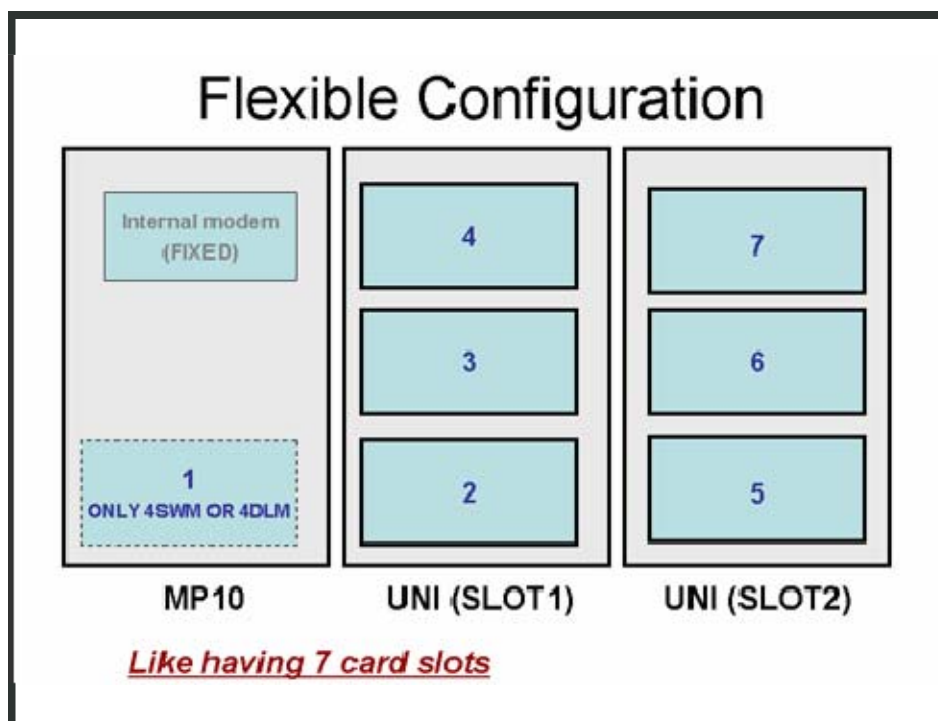
**NOTE:** MGI license keys can be order from the Samsung GSBN site <http://www.samsunggsbn.com>

**Common Resources:** The OfficeServ 7100 MP10 board provides the following shared resources:

- 6 conference circuits (add-on and group conferencing).
- 8 CID DSP senders/receivers. They decode Caller ID for incoming calls on loop start lines and deliver Caller ID to single line ports
- 8 DTMF senders/receivers provided for DTMF sending and tone detection.

**MISC port:** The MP10 has an 8 pin MISC connector on the front panel of the card to connect BGM/MOH input, external paging output, and connection to two dry contact relays. These relays can be used for external paging zone control, common bell, or loud bell.

- 3. DAUGHTER MODULES:** 5 types of daughter boards are available. They provide for flexible configuration and economical expansion. The following diagram and module descriptions provide a clear picture of how the OfficeServ 7100 is configured.



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**4DLM (FOUR PORT DIGITAL LINE MODULE):** This daughter module is a four circuit digital interface module that supports connection to the Samsung iDCS and DS Series Telephones. The module can be installed on the MP10 and/or the UNI card.

**4SLM (FOUR PORT SINGLE LINE MODULE):** This daughter module is a four circuit analog station interface module that supports connection to industry standard single lines. This card supports single lines with Message Waiting Lamps and Caller ID. The card can only be installed on the UNI card.

**4TRM (FOUR PORT TRUNK LINE MODULE):** This daughter module contains four analog loop start CO line circuits with disconnect detection. It also supports **Caller ID name and number** if provided by the Telco. The card can only be installed on the UNI card.

**4SWM (FOUR PORT SWITCH INTERFACE MODULE with PoE):** The 4SWM provides four 10/100 base-T ports performing layer 2 switching. It is installed on the MP10, the 4SWM module provides connection for four PoE ports. These ports can be used to connect ITP phones, SP-Net, LAN Printers, PC programming, uplink to other data switches or any other Ethernet devices. The module can only be installed on the MP10

**MODEM Daughter Board:** The MP10 can accommodate the optional modem daughter board used in the OfficeServ 500. This daughter board can be used for modem access for system administration as a backup for LAN connectivity. The card can only be installed in a dedicated connector on the MP10 card.

- 4. UNI CARD (12 PORT UNIVERSAL CARD):** This card provides 12 interface connections for the telephone lines and stations to the cabinet. The card(s) fit into universal slots 1 and/or 2 to configure the system as required. Each UNI card has 3 module slots for the daughter boards. Any of the 4DLM, 4SLM or 4TRM cards can be installed in any of the three 4 port module slots on the UNI card.
- 5. RACK MOUNT BRACKET – Optional (Order Separately):** The 7100 cabinet is 1U in height.



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### SYSTEM HARDWARE CAPACITIES

The following tables 1~3 indicate all the interface cards compatible with the OfficeServ 7100, the location and maximum number of each card type, and the maximum software capacities.

| Interface Card | Location        | Maximum per System |
|----------------|-----------------|--------------------|
| UNI Card       | Slots 1 & 2     | 2                  |
| 4SWM           | MP10 only       | 1                  |
| 4DLM           | UNI card & MP10 | 6                  |
| 4SLM           | UNI Card        | 6                  |
| 4TRM           | UNI Card        | 5                  |
| 8TRK           | Slots 1 & 2     | 2                  |
| 8COMBO         | Slots 1 or 2    | 1                  |
| 8SLI           | Slots 1 & 2     | 2                  |
| 8DLI           | Slots 1 & 2     | 2                  |
| 16DLI2         | Slots 1 or 2    | 1                  |
| 16MWSLI        | Slots 1 or 2    | 1                  |
| TEPRIa         | Slots 1 or 2    | 1                  |
| MGI16          | Slots 1 or 2    | 1                  |

*Table 1*

## The New OfficeServ 7100 IP Telephony Communications Platform

| ITEM                                                         | MAXIMUM # | AVAILABLE HARDWARE                          |
|--------------------------------------------------------------|-----------|---------------------------------------------|
| Max # of Analog Trunk Ports                                  | 20        | 4TRM and/or 8TRK                            |
| Max # of Digital Trunk Ports<br>PRI ONLY. (T1 not supported) | 23        | TEPRIa = 23 (23B + D)                       |
| Max # of SIP Trunk Ports                                     | 24        | 3 virtual slots x 8 ports = 24              |
| Max # of H.323 Trunk Ports                                   | 24        | 3 virtual slots x 8 ports = 24              |
| Max # of SPNet Trunk Ports                                   | 24        | 3 virtual slots x 8 ports = 24              |
| <b>MAX # OF TRUNKS CANNOT EXCEED 24.</b>                     |           |                                             |
| Max # of Analog Sets                                         | 24        | 4SLM, 8SLI and/or 16MWSLI                   |
| Max # of Digital Sets                                        | 24        | 4DLM, 8DLI, 8COMBO and/or 16DLI             |
| Max # of Samsung IP Phone Ports                              | 32        | 4 virtual slots x 8 ports = 32              |
| Max # of Samsung Softphone                                   | 32        | 4 virtual slots x 8 ports = 32              |
| Max # of WLAN Phone Ports                                    | 24        | 3 virtual slots x 8 ports (SMT-W5100E) = 24 |
| <b>MAX # OF STATION PORTS CANNOT EXCEED 32.</b>              |           |                                             |
| Max # of VM Ports                                            | 4         | Embedded on the MP10                        |
| <b>MAX STATION + TRUNKS + VOICEMAIL</b>                      | <b>60</b> | <b>32 STATIONS + 24 TRUNKS + 4 VM = 60</b>  |

Table 2

| ITEM                                                                     | MAXIMUM # | AVAILABLE HARDWARE                     |
|--------------------------------------------------------------------------|-----------|----------------------------------------|
| Max # of MGI Ports                                                       | 24        | 8 MGI Embedded (MP10) and/or MGI-16    |
| <b>MAX # OF MGI PORTS CANNOT EXCEED 24.</b>                              |           |                                        |
| Max # of SPNet Trunk Ports                                               | 24        | MGI16 + 8 embedded on MP10 = 24        |
| <b>MAX # OF SPNET TRUNK PORTS CANNOT EXCEED 24.</b>                      |           |                                        |
| Max # of Virtual SLI Ports                                               | 24        | 3 virtual slots x 8 ports = 24         |
| Max # of Virtual DLI Ports                                               | 24        | 3 virtual slots x 8 ports = 24         |
| <b>MAX # OF VIRTUAL ANALOG + DIGITAL STATION PORTS CANNOT EXCEED 24.</b> |           |                                        |
| Max # of Network Nodes                                                   | 99        | Using SPNet over IP                    |
| Max # of Station Group Members                                           | 32        | Any ring type.                         |
| Max # of Virtual Ports Supported                                         | 96        | 8 channels x 3 slots x 4 cabinets = 96 |

Table 3

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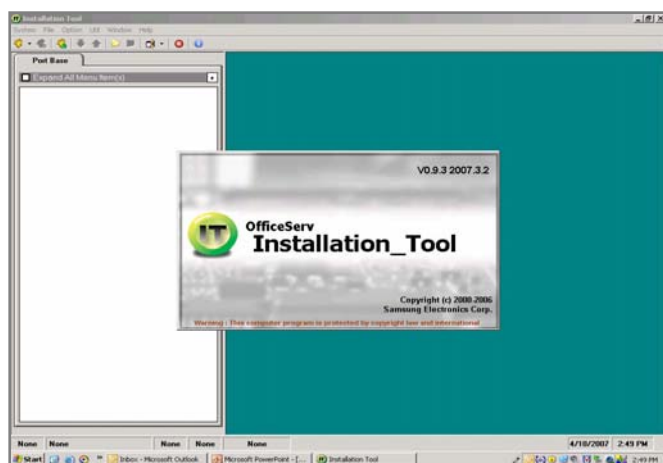
## SYSTEM SOFTWARE

The initial OfficeServ 7100 software release of MP-10 Main Version is v4.04.0 dated 07.05.23. This software is included on the 256MB MMC+ media card.

## PROGRAMMING AND ADMINISTRATION

There are three methods to program all the applications of the OfficeServ 7100.

1. **KMMC**: Program from any display keyset on the system.
2. **Installation Tool (Phone System Configuration & Administration)**



The OfficeServ 7100 can be managed with the new OfficeServ Installation Tool. Upload and download system databases to your PC, configure and program the system locally or remotely over an IP network, view customer's database offline, perform software upgrades to the MMC+ card. This application software can be loaded locally on a PC. Both OSM and Installation Tool Applications can be loaded on the same PC.

Note:OSM is not compatible with the OfficeServ 7100.

3. **Web Management (Voicemail/Automated Attendant Configuration and Administration)**

The OfficeServ 7100 embedded Samsung voicemail is managed through the Web Management interface. The web Management tool runs on an embedded Linux operating system with the Apache Web Server loaded. Both the web server and the Web Management tool are loaded on the MP10 card. The Web Management console can be accessed from internet Explorer 6.x. It allows configuration, backup/restore and user account management.

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### CTI APPLICATIONS

The OfficeServ 7100 supports the same suite of OfficeServ applications as the other OfficeServ systems:

- OfficeServ Link , OfficeServ EasySet,
- OfficeServ Operator
- OfficeServ Call
- OfficeServ DataView

OfficeServ Open TSP is available by special request.

### ORDERING

The OfficeServ 7100 can be ordered as a package with a single product code: KP- OS71SBSPKG for the **Small Business System Package** or as individual components.

The OfficeServ 7100 system and components are listed in the new Excel Price List available for downloading from the GSBN website as well as online ordering.

OfficeServ CTI Applications require a License Key. The License Key is generated based on the system MAC address of the MP-10.

Contact your Regional Sales Manager for further information on specific details for ordering the OfficeServ Applications License Key.

### DOCUMENTATION

#### OfficeServ 7100 Sales Brochure

An OfficeServ 7100 brochure is available for ordering using normal Samsung ordering procedures (L-SB-OS7100). A PDF of the brochure is available on the GSBN web site (<http://www.samsunggsbn.com>) under Communications, Sales and Marketing, Downloads, Brochures area.

#### Documentation & Technical Manual

The OfficeServ 7100 General Description, OfficeServ System Administration Guide, OfficeServ User Guides, Installation Guide, and Technical Manual fully explain all OfficeServ 7100 features and functionality. The Voicemail User Guide is included in the Keyset User Guides in the User Instructions Section of the Technical Manual. These documents are available on the OfficeServ 7100 Technical Manual CD-ROM (L-CD-OS7100). Certain PDFs of the documents are

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available on the GSBN website. Printed copies can be purchased online using the Samsung-FedEx Kinko's Print-on-Demand web site (<https://psg.kinkos.com/samsung>). If you have questions regarding the FedEx Kinko's web site or how to access this site, contact Samsung Customer Service.

### TRAINING/CERTIFICATIONS

Samsung has developed the *OfficeServ 7100 Online Certification Course #1030-01-0L*. This course covers the Basic System Configuration and Operation. Successful completion of this course is required to receive FREE Technical Support. Additional certifications for advanced applications on the 7100 are available in other Certification Courses. To access the certification course go to the Samsung LMS (Learning Management System) at:

<https://learn.samsungtelecom.com>

If you are a new technician you must complete a registration form and submit it to Samsung Training Department to obtain a User ID and Password for the LMS system at:

<http://www.samsunggsbn.com>

Click on "Online Training Registration Request" button on the Home Page.

An instructor lead course is not available for OfficeServ 7100 certification.

If you have any questions regarding this notice, please contact your Regional Sales Manager or your Customer Service Representative at the number provided below. You can also email us at [BCS.Sales@samsung.com](mailto:BCS.Sales@samsung.com).