

Bulletin No.: 142_OS7400

June 12, 2006

The New OfficeServ 7400 IP Telephony Communications Platform.... A BIGGER OFFICE IN A BOX



Samsung Telecommunications America is pleased to announce the general availability of the OfficeServ 7400 system.

We are expanding the OfficeServ 7000 Series family with the addition of the larger OfficeServ 7400 targeted for the medium to large enterprise. Finally, an IP solution that is capable of providing everything — IP sets, CT apps, Wireless voice and data, Data Networking, and connectivity to the legacy TDM world, all in a single, elegant solution. The OfficeServ 7400 is targeted for the 100 to over 500 station market.

- **BIGGER!** Even though it can grow to over 1300 ports, the OfficeServ 7400 still offers the same robust feature set of the other Samsung systems, such as the OfficeServ 7200,

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just more capacity. This means more trunks, more stations, more VoIP channels and more revenue opportunities for you!

- **HARDWARE MIGRATION!** Did your customer out grow the OfficeServ 7200? No Problem. The OfficeServ 7200 hardware can easily migrate into the larger OfficeServ 7400. You can directly connect existing OfficeServ 7200 cabinets to the OfficeServ 7400! This means INVESTMENT PROTECTION, NO FORK LIFT UPGRADES, a consistent family of products, thus MINIMAL RE-TRAINING of your technicians. Now your customer has expanded capacity for growth into the future and beyond.
- **GOING TO THE WEB!** Manage your OfficeServ 7400 systems from anywhere in the world using the all new WebMMC web-based administration and configuration tool. All you need is a web browser (Internet Explorer 6.0) and access to the WebMMC Server.
- **EXPAND YOUR STATION GROUPS!** With up to 99 members per station group, expand your Call Center, increase the capacity of your customer service groups, and create bigger operator groups.
- **BLAZING THROUGHPUT!** Enter the “GIGA” realm with the all new line up of Gigabit Data Router and Switch Modules employing the latest in 1000Base Technologies. You are now empowered to target the very lucrative large enterprise data infrastructure.
- **DON'T FORGET LOCAL VOIP!** Remember, the OfficeServ 7400 is an IP TELEPHONY PLATFORM. With the new MGI64 Media Gateway card, you get 64 channels of VoIP per slot*. Add as many as you like. The next time your customer demands large local IP telephone set deployments, don't let the competition steal your revenue. Install up to 480 IP terminals per system (local or remote), add TDM sets as needed. You can even power the IP key sets with our PoE (Power over Ethernet) data modules and OfficeServ-7150 supplemental PoE Power Supplies.
- **HIGH DENSITY TRUNK CARDS** Well, what about Trunks? Don't worry. The new TEPRI2 card offers dual circuits on one card. This means TWO T1/PRI circuits per slot...double your trunk capacity*. And now, add TEPRI cards to ANY Universal slot. You are no longer restricted to a few slots. Add as many as you like.

** 64 VoIP channels in main cabinet and 32 channels in expansion cabinets. TEPRI2 offers dual circuits only in the main cabinet. However, when installed in expansion cabinets, only one circuit is activated.*

The OfficeServ 7400 is an “office in a box” solution providing data router and LAN switching functions (LAN/WAN), TDM voice processing, Voice over IP integration, Wireless Communications, In-skin Voice Mail, Computer Telephony Integration (CTI), and much more,

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all in one powerful platform....**A COMPLETE VOICE AND DATA SOLUTION FOR THE ENTERPRISE.**

The OfficeServ 7400 can be rack-mounted in a standard 19" data rack or set on a desktop. Its compact cabinet design, RJ-45 connectors, and CAT 5 cabling allow it to easily integrate into any data center environment along with existing data equipment.

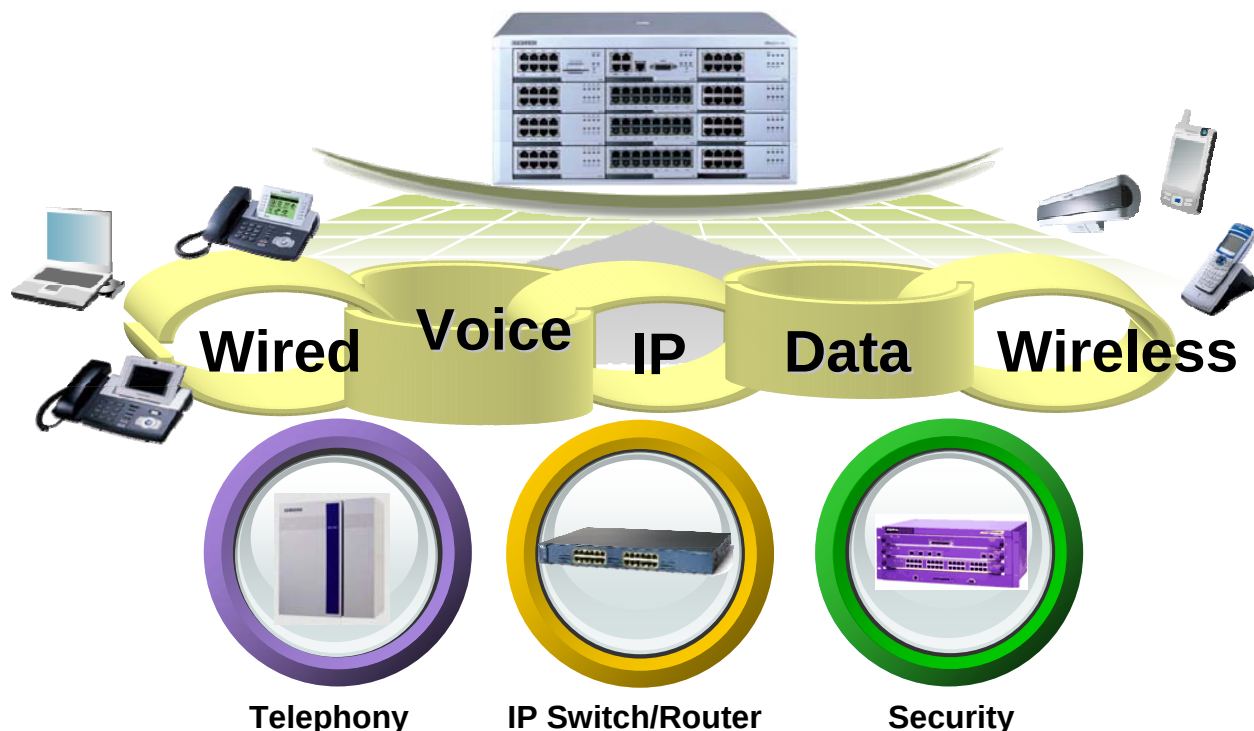
The all new integrated Gigabit Data Modules add powerful LAN/WAN access capabilities providing a complete data network solution for your enterprise. Firewall and Intrusion Detection capabilities provide data security for your site. VPN (Virtual Private Network), and Managed switch features such as VLAN and QoS (Quality of Service) separate this product from the traditional Key Systems of the past. The OfficeServ 7400 includes all of these functions, PLUS the same, robust, time proven, market tested feature package offered on the OfficeServ 7200 and 500 products.

BENEFITS:

- End-to-End Samsung components, Samsung Support and Samsung Training. The Ultimate in One- Stop Shopping and maintenance!
- Hardware migration from the OfficeServ 7200 to the OfficeServ 7400.
- Data modules communicate with the Main Processor. This integration allows the system to automatically configure itself to accommodate the VoIP applications such as IP Phones and IP networking. This automated configuration eliminates all the problems associated with incorrect network configurations, firewall issues, and incompatibilities found in 3rd party routers and switches.
- Ideal voice and data solution for Greenfield deployments in a brand new office environment. Go beyond just Moves, Adds, and Changes and gain additional revenue by providing data configuration services.
- The OfficeServ 7400 can also integrate into an existing office data network providing many solutions, such as isolating voice traffic onto the separate data network provided by the OfficeServ 7400.
- The OfficeServ 7400 networks (via SPNET over IP or Qsig over PRI) to other OfficeServ 7400s or any OfficeServ 7200, 500 or 100 systems.

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NEW OFFICESERV 7400 HARDWARE

CABINETS: The system utilizes a common cabinet that can be configured as either the main cabinet or one of two additional expansion cabinets. The main cabinet has a dedicated slot for the MP40 (the Main Processor) and every cabinet has a dedicated slot for the LP40 (Local Processor). The main cabinet offers 10 Universal slots and each expansion OfficeServ 7400 cabinet offers 11 Universal slots. Therefore, a 3-cabinet system offers a total of 32-universal slots. In the main cabinet, all slots are 64-channel slots while the slots in the OfficeServ 7400 expansion cabinets are 32-channel slots. The OfficeServ 7200 cabinet can also be used as expansion cabinets with the OfficeServ 7400 as the main cabinet. The OfficeServ 7200 expansion cabinet offers one 32-channel slot and four 16-channel slots.

MP40 (Main Control Processor): The MP40 is the main processor controlling system operation. The MP40 always goes in slot 3 of the main cabinet. The MP40 has LP40 link connectors to connect expansion cabinets, a LAN port, and a smart media card slot that accommodates a 32-MB SmartMedia card containing the system software. The MP40 also has a modem daughter card connector for mounting the OfficeServ 500 modem daughter card.

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LP40 (Local Control Processor): The LP40 is a local processor that is required in every cabinet. It must go into slot 0 of each cabinet. Even if you have a single cabinet system, you must install an LP40. Each LP40 offers 6 five-party conference circuits and 8-DTMF receivers. All system daughter boards are installed on LP40 cards except for the modem daughter board. The LP40 is shipped with the HDLC Link cables.

DAUGHTER CARDS: Six types of daughter boards are available in the system and they can only be mounted on the LP40, except for the modem daughter card.

- 1) CRM (Common Resource Module): This is a new OfficeServ 7400 daughter board that offers the combined features of the current SCM+MFM+RCM2 daughter boards. It provides 6 additional conference circuits and has 2 programmable 8-channel DSPs. Each DSP can be programmed to function as either Caller ID receivers or DTMF receivers.
- 2) MIS daughter board: The MIS consists of the following: Two (2) external music/audio inputs, One (1) external paging audio output, One (1) loud bell audio output, One (1) common bell relay contact closure, and Two (2) software programmable relay contact closures. The MIS can only be installed in LOC 3 on any LP40. Maximum of 3 MIS Daughter Boards in a three cabinet 7400 system.
- 3) RCM-2 (same as OfficeServ 500 RCM2): consists of 14-CID receivers and 16-CID senders. This board provides Caller ID for calls coming in on loop start trunks. This card will also deliver Caller ID to Single line phones on the system.
- 4) MFM (same as OfficeServ 500): Provides an additional 12 DSPs for DTMF tone detection. (DTMF Receivers)
- 5) SCM (same as the OfficeServ 500): Each SCM provides 12 additional conference circuits and 12 additional DTMF receivers.
- 6) MODEM Daughter Board: The MP40 can accommodate the 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.

TEPRI2 CARD: This is a dual circuit digital trunk interface card. It offers the exact functionality of the original TEPRI card. The difference is that it combines two TEPRI cards into one board. Each circuit provides 24 channels for T1/PRI CO trunking OR for Qsig over PRI networking so you can network to other OfficeServ systems. This means in one slot, you get 48 channels for T1, PRI or Qsig functions. This card can be installed in any universal slot; however, you get dual circuits in the main cabinet and only a single circuit per card in an OfficeServ 7400 expansion cabinet. You cannot install this card in an OfficeServ 7200 expansion cabinet. There are no limits to how many you can install in a system.

MGI64 (Media Gateway Interface): The MGI64 card offers 64 VoIP channels per card when installed in the main cabinet and 32 channels when installed in an OfficeServ 7400 expansion cabinet. You get 64 channels right out of the box. There is no limit to how many you can install

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in a system. You can install them into any available universal slot. The MGI64 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)
- T.38 Fax CODEC
- In-band or Out-of-band signaling of DTMF tones

DATA MODULES: The OfficeServ 7400 supports 4 new data modules as described below:

1) GWIM (GIGABIT WAN INTERFACE MODULE)

- 3 - 1000 Base-TX/SX/LX Ethernet function for LAN interface
- 1 – V.35 Serial interface port
- 1 – HSSI Hi-Speed Serial Interface (45mbps)
- Routing between WAN and LAN
- Supports multiple WAN ports
- VPN, QoS, Firewall
- Intrusion Detection System (IDS)
- Leased line interface using V.35 and HSSI (PPP, HDLC)

2) GPLIM (GIGABIT LAN INTERFACE MODULE)

- 12 – 10/100 Base-T interface ports
- 2 – 1000 Base SX/LX/TX interface ports
- L2 Ethernet Switching (Managed)
- 10/100 BASE Full/Half duplex auto-sensing
- VLAN Networking (802.1q)
- Packet Priority Control (802.1p)
- Multicasting (IGMP Snooping)
- IEEE 802.3af Power over Ethernet (PoE)

3) GSIM (GIGABIT SWITCH INTERFACE MODULE with Power Over Ethernet)

- 10 - 1000 Base-SX/LX/TX interface ports
- L3 Unicasting Protocol
- L3 Multicasting Protocol
- Ethernet Switch (802.3 compatible)
- Packet Priority Control (802.1p)
- VLAN Networking (802.1q)
- Diffserv

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- Flow Control (802.3x)
- Multicasting (IGMPv1/v2, PIM-SM)

4) PLIM (LAN INTERFACE MODULE with Power over Ethernet)

- 16 – 10/100 Base-T interface ports
- IEEE 802.3af Power over Ethernet (PoE)
- 10/100 BASE Full/Half duplex auto-sensing
- L2 Ethernet Switching (Un-Managed)

ALL OTHER HARDWARE IS COMMON WITH THE OFFICESERV 7200

See the table below to see the OfficeServ 7200 hardware migration to the OfficeServ 7400:

TYPE	HARDWARE	OS7200	OS7400
Station Cards	16DLI2/ 8DLI	Y	Y
	16MWSLI/8SLI	Y	Y
	8COMBO	Y	Y
Trunk Cards	TEPRI	Y	Y
	8TRK	Y	Y
Daughter cards	RCM2	Y	Y
	MIS	Y	Y
	MFM	Y	Y
	SCM	Y	Y
VoIP	MGI	Y	Y
Voice Mail/AA	SVMi-20E	Y	Y
Station Equipment	All DCS, iDCS, DS, WIP handsets, and ITP Terminals	Y	Y
Cabinets	OfficeServ 7200 cabinets as expansion	Y	Y
Processor Cards	MCP	Y	N
	LCP (for 7200 exp. cabinet only)	Y	Y
Data Modules	PLIM (PoE LAN Interface Module)	Y	Y
	WIM (WAN Interface Module)	Y	N
Wireless	4WLI	Y	N

Note: Version 1.0 DCS Keysets are not compatible. Versions 1.5 or higher are compatible.

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SYSTEM SOFTWARE

The OfficeServ 7400 ships with v3.31b (06.04.13) main software for the MP40. The LP40 software is v1.12 (06.03.07). This software is included on the 32MB SmartMedia card.

WebMMC System Configuration and Administration Tool

The OfficeServ 7400 is managed with the new web based WebMMC management tool. Upload and download system databases to your PC, configure and program the system locally or remotely over an IP network using Internet Explorer V6.0 web browser. This application can be loaded locally on a PC or can be installed as a web server. OSM is not compatible with the OfficeServ 7400.

OFFICESERV 7150 POE EXTERNAL POWER SUPPLY

All of the new Data Modules mentioned above can be configured to get power from either the internal cabinet power supply or from the new OfficeServ 7150. The OfficeServ 7150 is an external supplemental PoE power supply. When the cumulative total of connected powered data devices to the GPLIM and PLIM modules overloads the internal 48VDC PSU capacity, you can connect the OfficeServ 7150 to each cabinet to provide additional power.

SYSTEM CAPACITIES

Max # of Analog Trunks	256	32 slots x 8 ports
Max # of Digital Trunks	1008	10 x 48(TEPRI2)=480 22 x 24 (TEPRI)=528
Max # of MGI Channels	1344	10 x 64 (MGI64) = 640 22 x 32 (MGI64) = 704
Max # of Analog Stations	512	32 x 16 ports
Max # of Digital Stations	512	32 x 16 ports
Max # of Virtual Ports	768	2 Virtual Cabinets x 12 slots x 32 ports
Max # of Samsung IP key sets	480	15 slots x 32 ports
Max # of H.323 Trunk Ports	64	2 slots x 32 ports

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Max # of SIP Trunk ports	64	2 slots x 32 ports
Max # of SPnet Trunks	224	7 slots x 32 ports
Max # WIP Handsets	192	6 slots x 32 ports
Max # of Nodes	99	Same as all platforms
Max # of SVMi ports	12	SVMi-20E
Max # Station Group Members	99	Only for groups using Sequential or Distributed ringing.

These are maximum capacities. Different combinations/configuration of cards may reduce the capacities shown above.

DOCUMENTATION

You can also download OfficeServ 7400 product documentation from the Samsung GSBN web site. Please note that if you have a slow Internet connection, we highly recommend you order the following CDs:

- OfficeServ 7400 Tech Manual (CD ROM): L-CD-OS7400
- OfficeServ Wireless Tech Manual (CD-ROM): L-CD-OSWLAN
- SVMi-20E Technical Manual (CD-ROM): L-CD-SVMI20E

Printed copies of the OfficeServ 7400 documentation is available for ordering from the Samsung FedEx Kinko's website (<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

Contact your local RSM to find out about the latest training and certifications required for OfficeServ 7400.

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

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