

Bulletin No.: 192\_OS\_7200\_MP20\_Card

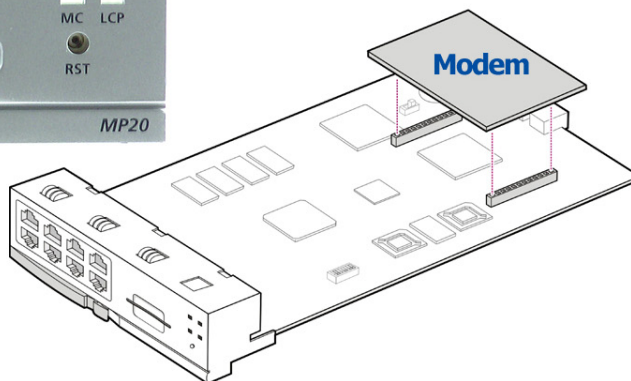
May 6, 2009

## New OfficeServ™ 7200 MP20 with 1GB SD Media Card: General Availability

Samsung Telecommunications America is pleased to announce the general availability of the new OfficeServ™ 7200 MP20 processor card beginning May 06, 2009. This card replaces the MCP processor card.



*MP20 supports Samsung's Universal Modem*



The MP20 card offers numerous improvements as well as upgrading performance that will support new applications going forward.

| Component | MCP     | MP20    | Benefit                                                             |
|-----------|---------|---------|---------------------------------------------------------------------|
| CPU       | XPC855T | MPC8247 | Improved performance<br>(SIP Stack Porting and future IPv6 support) |

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| Component       | MCP           | MP20       | Benefit                                                                                  |
|-----------------|---------------|------------|------------------------------------------------------------------------------------------|
| SDRAM           | 64MB          | 128MB      | Speed improvement                                                                        |
| RTC             | RTC72423      | RTC8564    | Reduced current consumption                                                              |
| Back Up Memory  | SRAM          | NAND Flash | Maintains database indefinitely<br>Do not need switch and super capacitor for DB back up |
| Modem Connector | Not available | Available  | Supports common OfficeServ Modem Board (KPOS74BMIOD/XAR)                                 |

The new material codes are:

| Part Number    | Name        | Description                                             |
|----------------|-------------|---------------------------------------------------------|
| KP-OSDBMP2/XAR | OS7200 MP20 | MP20 Processor for OS7200                               |
| KP-OSDWSDC/XAR | OS7200 SD20 | 1GB SD Media card for OS7200 MP20 with software program |

### MP20 IMPROVEMENTS

1. The MP20 processor card has three times the processing speed of the MCP processor card. This new processing power enables the system to use NAND Flash Memory for improved memory management.
2. The MP20 processor card now supports the same CRM (Common Resource Module) currently used on the OfficeServ 7400 product for CID and DTMF.
3. The MP20 processor card now supports SD (Secure Media Cards with 1GB of memory storage). This part number KP-OSDWSDC/XAR replaces the KP-OSDWMMC/XAR which is the MMC+ version.
4. The MP20 processor card now supports Samsung's Universal Modem. The OfficeServ modem works on the OfficeServ 100, OfficeServ 500, OfficeServ 7400, OfficeServ 7200, and OfficeServ 7100 products. KPOS74BMOD/XAR is the universal modem for all of our systems.
5. NAND Flash Memory has been introduced into the OfficeServ 7200 product with the introduction of the MP20 processor. This provides improved memory management.

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Now the database will be stored virtually forever unless the Reset Button on the faceplate has been held down for 7 seconds or unless the user has accessed MMC 811 and performed a memory clear. This management is the same that is used on the OfficeServ 7100 and OfficeServ 7400 products.

6. No battery or super capacitor is required to save the memory. Because of this, the battery switch has been removed from the card. A small battery was added to the MP20 card to maintain the Real Time Clock (RTC), which keeps the time and date.
7. The new MP20 card requires a different startup procedure on the initial installation of the MP20 card into the OfficeServ 7200 cabinet. Please refer to the installation manual for detailed instructions on the new startup procedure.

### HARDWARE

| Previous Material Code | Current Material Code        |
|------------------------|------------------------------|
| MCP (KP-OSDBMPM/XAR)   | OS7200 MP20 (KP-OSDBMP2/XAR) |
| MMC+ (KP-OSDWMMC/XAR)  | OS7200 SD20 (KP-OSDWSDC/XAR) |

### SOFTWARE COMPATIBILITY

|                                                                                                                                 |                              |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <b><i>MP20 can use either the MMC+ or SD media cards with V4.23b Software.<br/>You can download this version from GSBN.</i></b> |                              |
| MCP (KP-OSDBMPM/XAR)                                                                                                            | OS7200 MP20 (KP-OSDBMP2/XAR) |
| MMC+ (KP-OSDWMMC/XAR)                                                                                                           | OS7200 SD20 (KP-OSDWSDC/XAR) |

### ORDERING

The list price of the MP20 is the same as the MCP Processor for the OfficeServ 7200 product line. The SD media card is the same list price as the MMC+ media card.

Effective May 06, 2009 the MP20 card and SD media card can be ordered online on GSBN or by using the Excel Order Form (available for download on GSBN [www.samsunggsbn.com](http://www.samsunggsbn.com) under Communications, Sales and Marketing, Downloads, Order Form.)

Any orders with MCP in the system prior to May 6, 2009 but not shipped will be fulfilled with the new MP20 card.

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## OfficeServ 7200 KITS

The current OfficeServ 7200 kits have been adjusted to replace the MCP processor with MP20 processor and new 1GB SD media card. All new orders will be filled with these items.

## TRAINING AND CERTIFICATIONS

The MP20 cards have been used for training in the last few classes. The OfficeServ 7200/7400 Instructor Led classes are training this new product at this time on the OfficeServ 7200 product line.

If you are already certified on the OfficeServ 7200 system your certification is valid for the new MP20. No new certification is required.

## GUIDED SELLING SYSTEM (GSS)

The Guided Selling System will be updated soon to include the new MP20 and the new SD card in the packages. Configuration and pricing will not be affected as the MP20 is a direct replacement for the MCP at the same list price.

## DOCUMENTATION

The General Description and Installation sections of the OfficeServ 7200 Technical Manual has been updated to reflect the new MP20 card. These are available for download from Global Samsung Business network (GSBN) website, [www.samsunggsbn.com](http://www.samsunggsbn.com) or purchased online using the Samsung-Fedex/Kinkos Print-on-Demand website (<http://docstore.kinkos.com/samsung>).

| Documentation                         | Location on GSBN                                                      |
|---------------------------------------|-----------------------------------------------------------------------|
| • OfficeServ 7200 General Description | Communication → Sales and Marketing → Downloads → General Description |
| • OfficeServ 7200 Technical Manual    | Communication → Technical Support → Downloads → Technical Manuals     |

For your convenience the MP20 Start-up Instructions and Memory Management explanation from Installation Manual are included as part of this bulletin.

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

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## OfficeServ™ 7200 MP20 Card: General Availability

### 8.2.2 Starting the System with MP20

The procedure for starting the OfficeServ 7200 system is as follows:

- 1) Check if the boards and cables are properly mounted and connected to the OfficeServ 7200 cabinet.
- 2) Make sure the Secure Digital (SD) media card with the system software is in the Media Card slot.
- 3) Turn on the power of the OfficeServ 7200 expansion cabinet first, then turn on the power of the main cabinet.
- 4) After three minutes of RUN LED and SM LED activity, press the RESET SWITCH on the faceplate of the MP20 processor card and hold it for 10 seconds. This will create a default database with the current hardware configuration and DIP switch settings of S3 on the MP20.
- 5) The RUN LED will change from GREEN to AMBER and will stop flashing after 10 seconds. Release the RESET button and wait 3 minutes for the system to boot into service.
- 6) The RUN LED of the MP20 board lights green and the SM LED flashes when the system normally starts the booting process.
- 7) Once the booting is complete, the RUN LED of the MP20 board flashes green, and the SM LED stops flashing and remains light. At this point the system had a default database.
- 8) The RUN LED of the LCP board flashes when the power supply and processor status of the expansion rack is normal.
- 9) Check if the LED status of other interface boards are normal.
- 10) If the LED status of the MP20, LCP, or interface board is abnormal, turn off the power of the cabinet and turn the power on again. If this does not restore normal system operation contact Samsung Technical Support.

## PART 9. SOFTWARE AND DATABASE MANAGEMENT

### 9.1 SOFTWARE MANAGEMENT on MCP and MP20

The OfficeServ 7200 operating software is stored on the media card which is inserted into the front of the MCP/MP20 card. Upon power up the OS is loaded into SRAM. The OS runs from SRAM, not from the media card. Each time the system is started the OS is copied from the media card to the RAM. The MMC+ has 32 Megabytes and the Smart Media has 64 Megabytes of memory. This is formatted, with a custom format to allow faster loading, in a similar manner to a hard disk. The SD card has 1 Gigabyte of memory. In addition to the operating system these media cards can store software for the LCP card and the TEPRI/TEPRIa card. The media card also has the capability to store a backup copy of the system database.

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Software can be uploaded from the media card to the TEPRI and LCP cards listed above using MMC 818 (File Control) and will be stored in those cards on-board flash memory. The cards will automatically reboot, load and run the new software when the upload process is complete. Files can be deleted using MMC 819, File Control. This is necessary to clean up the media card.

Using OfficeServ™ Manager/Installation Tool over a LAN connection to the system the software files can be uploaded to the media card. The files are first uploaded to the MCP/MP20 card and then transferred to the media card. Once the files are loaded onto the media card they can be manipulated with MMC 818 as before.

## 9.2 DATABASE MANAGEMENT

### 9.2.1 Database Management on MCP

#### Creating and Storing a Customer Database

Upon successful power up a default database is created based on current hardware configuration and DIP switch S3 settings on MCP card. This database is stored in SRAM on the MCP. A super capacitor protects this memory for approximately 2-3 days when power is off. The Memory backup switch S2 on MCP card must be in the ON position to protect the data based stored on SRAM.

After the technician makes necessary changes (station & group names, COS tables, routing plans etc.) to this database it is highly recommended to store a back up copy of this customer database to the media card (Smart Media, MMC+ or SD). This is accomplished by copying Customer Database from SYSDB (system database) to MCDB (media card database) using MMC 815 Customer Database program. In addition the technician can store a copy of the system database on a PC using OfficeServ Installation Tool or OfficeServ Manager depending on the software version.

Using MMC 815 the technician can set the Auto Back Up feature to automatically copy the system database to the media card on a daily or weekly time schedule. This option can also be set using OfficeServ Installation Tool or OfficeServ Manager.

When the power is off sufficient time to completely discharge the super capacitor the database stored in SRAM is lost. To restore it back in SRAM, copy MCDB (media card database) to SYSDB (system database) using MMC 815. If a copy of the customer database was stored off line on a PC using OfficeServ Installation Tool it can be uploaded into SRAM using the Utility menu in Installation Tool. When using Installation Tool to save database files name them with dates so you know what database your are restoring.

#### Defaulting the Database

When it is necessary to wipe out (default) the customer database, power down the main cabinet, Remove the MCP, then set The Memory backup switch S2 on MCP card to the OFF position for one full minute. Then put it back in the ON position, then put it back in slot 0 of main cabinet. Turn the system ON and let it boot up with a default database.

## OfficeServ™ 7200 MP20 Card: General Availability

An alternative method is to use a MMC 811- System Restart from a keyset. Execute the “ Clear Memory” option followed by the “System Restart” option.

### 9.2.2 Database Management on MP20

Upon successful power up a default database is created based on currently hardware configuration and DIP switch S3 settings on MP20 card. This database is stored in NAND Flash memory on the MP20. NAND flash memory does not require a battery or super capacitor to retain data. It is stored virtually forever or unless the memory chip is damaged. There is no memory backup switch on the MP20.

After the technician makes necessary changes (station & group names, COS tables, routing plans etc.) to this database it is highly recommended to store a back up copy of this customer database to the media card ( MMC+ or SD). This is accomplished by copying Customer Database from SYSDB (system database) to MCDB (media card database) using MMC 815 Customer Database program. In addition the technician can store a copy of the system database on a PC using OfficeServ Installation Tool.

Using MMC 815 the technician can set the Auto Back Up feature to automatically copy the system database to the media card on a daily or weekly time schedule. This option can also be set using OfficeServ Installation Tool.

For whatever reason the back up copy of the database on the media card can replace the database stored in NAND Flash. Using MMC 815 to copy MCDB (media card database) to SYSDB (system database). If a copy of the customer database was stored off line on a PC using OfficeServ Installation Tool it can be uploaded into SRAM using the Utility menu in Installation Tool. Database changes are copied from SRAM to NAND Flash every 5 minutes or immediately after setting programming to “Disabled” then exiting. When using Installation Tool to save database files name them with dates so you know what database your are restoring.

#### Defaulting the Database

When it is necessary to wipe out (default) the customer database on the MP20, press and hold the RESET button for 10 seconds until the RUN LED lights steady amber, then release the reset button. The system will reboot and come up with a default database based on current hardware configuration and DIP switch S3 settings on MP20 card.

An alternative method is to use a MMC 811- System Restart from a keyset. Execute the “ Clear Memory” option followed by the “System Restart” option.