

## Samsung SMART Signage Set-Back-Box (SBB)

### "Take display performance to the next level"

#### Overview

Set-Back-Box (SBB) is a lean, performance-focused upgrade that adds functionality to displays with minimal bulk and wiring clutter. The product easily installs in the back of Samsung SMART Signage, which is typically equipped with screw holes to fix the SBB in place. In addition, SBB offers performance ranges from dual core to quad core.



Figure 11. SBB-A

#### Specifications

			D16CX2	D32CX2	D32CV2	F32CV4
Media Player	CPU		AMD® A4-3310M Dual-Core			AMD® AM3520 1.6GHz Quad-core
	N/B		Integrated			None
	S/B		Hudson-M3			
	GPU		AMD® Radeon HD6480G (Integrated on APU)			Integrated on APU
	FDM/HDD/SSD		SSD 16GM	SSD 32GB		
	Memory		2GB (DDR3 SO-DIMM 2GB x 1)			4GB (DDR3 SO-DIMM 2GB x 2)
	Ethernet		GbE Ethernet (RJ-45)			
	Connectivity	USB	USB 2.0 Port x 2, USB 3.0 Port x 2			
		Output	1st: Magicinfo Out (DP Port, Up-to 1080p), 2nd: DisplayPort®			
		Others	RJ-45, RS232 (D-SUB 9P)			
Power	Operating System		Windows® Embedded Standard 2009		Windows® Embedded Standard 7	
	Type		Internal			
	Power Supply		AC 100 - 240 V~ (+/- 10 %), 50/60 Hz			
	Power Consumption		70 W (Max) / 27W (Typical)			70 W (Max) / 29W (Typical)
Mechanical Spec	Dimension (mm/in.)	Set	310 x 219 x 32 (12.2 x 8.6 x 1.2)			
		Package	462 x 269 x 95 (18.1 x 10.5 x 3.7)			
	Weight (kg/lb)	Set	1.8			
		Package	2.5			
Operation	Operating Temperature		10°C~ 40°C (50°F ~ 104°F)			
	Humidity		10~80%			
Accessories			User Manual, Power Cord DP to DVI Cable (Short, Long)			



## Samsung SMART Signage Set-Back-Box (SBB)

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			SBB-N64DV4	SBB-N64DP4	SBB-N28DP4	SBB-B64DV4	SBB-B64DP4	SBB-B28DP4
Media Player	CPU		Intel® Core i5-4400EQ (2.7GHz Dual, GT2)			AMD Bald Eagle RX425 (2.5GHz Quad)		
	N/B		Integrated					
	S/B		QM87			Bolton-E4		
	GPU		Intel HD4600			AMD R6 Graphics		
	FDM/HDD/SSD		SSD 64GB		SSD 128GB	SSD 64GB		SSD 128GB
	Memory		4GB (DDR3 SO-DIMM 2GB x 2)					
	Ethernet		GbE Ethernet (RJ-45)					
	Connectivity	USB	USB 2.0 Port x 2, USB 3.0 Port x 2					
		Output	1st: Magicinfo Out (DP Port, Up-to 1080p), 2nd: DisplayPort					
		Others	RJ-45, RS232 (D-SUB 9P)					
Operating System		Windows Embedded Standard 7	Window 7 Professional		Windows Embedded Standard 7	Window 7 Professional		
Power	Type		Internal					
	Power Supply		AC 100 – 240 V~ (+/- 10%), 50/60 Hz					
	Power Consumption		TBD					
Mechanical Spec	Dimension (mm/in.)	Set	310 x 219 x 32 (12.2 x 8.6 x 1.2)					
		Package	462 x 269 x 95 (18.1 x 10.5 x 3.7)					
	Weight (kg/lb)	Set	1.8 (3.9)					
		Package	2.5 (5.5)					
Operation	Operating Temperature		10°C~ 40°C (50°F ~ 104°F)					
	Humidity		10-80%					
Accessories			User Manual, Power Cord DP to DVI Cable (Short, Long)					

	ME	DE	UE	UD	MDC	DB	DM	DH	QM
All SBBs	O	O	O	O	O	O	O	O	O



## Samsung SMART Signage Plug-in-Module (PIM)

### "Upgrade to a familiar, user-friendly interface"

#### Overview

Plug-in-Module (PIM) adds performance to Samsung SMART Signage, with a Windows operating system (OS) for a familiar user interface (UI) and high compatibility with third-party software. PIM partially embeds on the back of the compatible Samsung SMART Signage to minimize bulk on the rear side, and reduces wire clutter. The product follows the OPS slot standard.

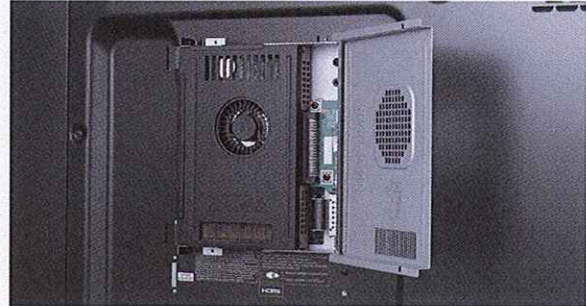


Figure 12. PIM-B

#### Specifications

		SBB-PD32BV2	SBB-PF32BV4	SBB-PF28BP4
APU		AMD A4-3310M 2.1GHz Dual-core (boost up to 2.5GHz) 256KB (L1) / 1MB (L2) Cache	AMD AM3520 1.6GHz Quad-core	
Memory		2GB (DDR3 SO-DIMM 2GB x 1)	4GB (DDR3 SO-DIMM 4GB x 1)	
Storage		SSD 32GB	SSD 32GB	
Graphics		Radeon HD6480 Series (Integrated on APU)	(Integrated on APU)	
OS		Window Embedded Standard 7	Window Embedded Standard 7	Window 7 Professional for Embedded Systems
I/O Port		80 pin OPS port / DisplayPort out / Gigabit Ethernet (RJ-45) / USB 2.0 Port x 2, USB 3.0 Port x 2 / Mic in, Audio out		
Power	Power Consumption	60W (MAX), 14W (Typical)	70W (MAX), 15W(Typical)	70W (MAX), 27 (Typical)
Dimension (mm/in.)	Set	200 x 175.6 x 34.4 (7.8 x 6.9 x 1.3)	200 x 175.6 x 34.4 (7.8 x 6.9 x 1.3)	200 x 175.6 x 34.4 (7.8 x 6.9 x 1.3)
	Package	430 x 250 x 55 (16.9 x 9.8 x 2.1)	430 x 250 x 55 (16.9 x 9.8 x 2.1)	430 x 250 x 55 (16.9 x 9.8 x 2.1)
Weight (kg/lb)	Set	1.2 (2.6)		
	Package	1.9 (4.1)		
Operation	Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)		
	Humidity	10 ~ 80%		
Certification	Safety	UL/c-UL, CSA, TUV, NEMKO, KC, CCC		
	EMC	FCC class A, CE, VCCI, KCC, BSMI, C-Tick CCC		
	Environment	N/A		

	ME75	ME95	ED65	ED75	PE40	PE46	PE55	MD65	DM	DB	DH
All PIMs	○	○	○	○	○	○	○	○	○	○	○