



Product Change Notification (PCN)

<p>Changed Product(s):</p> <p>APRO HERMIT Series Products -</p> <ol style="list-style-type: none"> 1) Industrial CompactFlash Card 2) Industrial CompactFlash Card supports Write Protection 3) Industrial PCMICA ATA Card 4) Industrial 40/44-pin micro Flash (MIF) Module 5) Industrial 2.5" PATA (IDE) SSD <p>Capacities : 32MB/ 64MB/ 128MB/ 256MB/ 512MB/ 1GB/ 2GB/ 4GB/ 8GB/ 16GB</p>	<p>Doc. No.: 099-HERMIT-HASL-0V1</p> <p>Date: 2011/3/7</p>
<p>Change Description and the reasons :</p> <p>In response to Samsung Flash IC process technology upgrading and the new C.H.S. geometry slightly different from the current flash ICs, APRO have to release the new default setting of C.H.S. geometry.</p> <p>For some of customers might install related System OS source disk images file for mass-duplication, the default setting in this report is for dear customers' reference for early preparation and making a plan to re-approve the samples for the running projects.</p> <p>The HERMIT Series products with upgraded Flash IC have already been completely tested, verified and approved by APRO, and are keeping the same quality and stability with the current HERMIT Series products.</p> <p>Remark:</p> <ol style="list-style-type: none"> 1. The upgraded NAND SLC Flash IC includes: 1Gbits, 2Gbits, 4Gbits, 8Gbits, and 16Gbits. 2. 2Gb Flash IC was transferred to C Die; 1Gb/ 4Gb/ 8Gb/ 16Gb Flash were transferred to D Die. 3. All HERMIT Series PCB designs are same without changes. 	



Comparison table of changed products:

1. HERMIT Series Industrial CompactFlash Card

A: Part Number Comparison Table

Capacity	Plastic Frame-Kit			
	Standard Grade		Industrial Grade	
	Old Part No.	New Part No.	Old Part No.	New Part No.
32MB	NA	SPCFC032M-HACSCN	NA	WPCFC032M-HAISIN
64MB	NA	SPCFC064M-HACSCN	NA	WPCFC064M-HAISIN
128MB	SPCFC128M-HACSC	SPCFC128M-HACSCN	WPCFC128M-HAISI	WPCFC128M-HAISIN
256MB	SPCFC256M-HACSC	SPCFC256M-HACSCN	WPCFC256M-HAISI	WPCFC256M-HAISIN
512MB	SPCFC512M-HACSC	SPCFC512M-HACSCN	WPCFC512M-HAISI	WPCFC512M-HAISIN
1GB	SPCFC001G-HACSC	SPCFC001G-HACSCN	WPCFC001G-HAISI	WPCFC001G-HAISIN
2GB	SPCFC002G-HACSC	SPCFC002G-HACSCN	WPCFC002G-HAISI	WPCFC002G-HAISIN
4GB	SPCFC004G-HACSC	SPCFC004G-HACSCN	WPCFC004G-HAISI	WPCFC004G-HAISIN
8GB	SPCFC008G-HACSC	SPCFC008G-HACSCN	WPCFC008G-HAISI	WPCFC008G-HAISIN
16GB	SPCFC016G-HACSC (No Change)		WPCFC016G-HAISI (No Change)	

Remarks:

- (1). All part number list include the mode setting by -PF/-PR/-PA/-UF/-UR/-UA/-AF/-AR/-AA.
- (2).HERMIT Series Industrial Rugged Metal CompactFlash Card SRCFCxxxx- & WRCFCxxxx with same changing rule as above.

B. Device Parameter Setting Comparison Table

Capacity	C.	H.	S.	LBA	Total Capacity	C.	H.	S.	LBA	Total Capacity
	Previous Parameter Setting					New Parameter Setting				
32MB	NA					500	8	16	64,000	31.25MB
64MB	NA					500	8	32	112,000	62.5MB
128MB	500	16	32	256,000	125MB	497	16	32	254,464	124.25MB
256MB	1000	16	32	512,000	250MB	984	16	32	503,808	246MB
512MB	1015	16	32	1,023,120	499.57MB	1,001	16	63	1,009,008	492.68MB
1GB	2031	16	32	2,047,248	0.97GB	2,002	16	63	2,018,016	985.36MB
2GB	4063	16	32	4,095,504	1.95GB	4,003	16	63	4,035,024	1.92GB
4GB	8146	16	32	8,211,168	3.91GB	8,006	16	63	8,070,048	3.85GB
8GB (*1)	16,000	16	63	16,128,000	7.69GB	16,000	16	63	16,128,000	7.69GB
16GB	32,235	16	63	32,492,880	15.49GB	Without Change				

Remarks:

- (*1). IC Die changed, but C.H.S. keeps the same.



2. HERMIT Series Industrial CompactFlash Card supports Write Protection

A: Part Number Comparison Table

Capacity	Plastic Frame-Kit			
	Standard Grade		Industrial Grade	
	Old Part No.	New Part No.	Old Part No.	New Part No.
32MB	NA	SPCFW032M-HACSCN	NA	WPCFW032M-HAISIN
64 MB	NA	SPCFW064M-HACSCN	NA	WPCFW064M-HAISIN
128MB	SPCFW128M-HACSC	SPCFW128M-HACSCN	WPCFW128M-HAISI	WPCFW128M-HAISIN
256MB	SPCFW256M-HACSC	SPCFW256M-HACSCN	WPCFW256M-HAISI	WPCFW256M-HAISIN
512MB	SPCFW512M-HACSC	SPCFW512M-HACSCN	WPCFW512M-HAISI	WPCFW512M-HAISIN
1GB	SPCFW001G-HACSC	SPCFW001G-HACSCN	WPCFW001G-HAISI	WPCFW001G-HAISIN
2GB	SPCFW002G-HACSC	SPCFW002G-HACSCN	WPCFW002G-HAISI	WPCFW002G-HAISIN
4GB	SPCFW004G-HACSC	SPCFW004G-HACSCN	WPCFW004G-HAISI	WPCFW004G-HAISIN

Remarks: All part number list include the mode setting by -PF/-PR/-PA/-UF/-UR/-UA/-AF/-AR/-AA.

B. Device Parameter Setting Comparison Table

Capacity	C.	H.	S.	LBA	Total Capacity	C.	H.	S.	LBA	Total Capacity
	Previous Parameter Setting					New Parameter Setting				
32MB	NA					500	8	16	64,000	31.25MB
64MB	NA					500	8	32	112,000	62.5MB
128MB	500	16	32	256,000	125MB	497	16	32	254,464	124.25MB
256MB	1000	16	32	512,000	250MB	984	16	32	503,808	246MB
512MB	1015	16	32	1,023,120	499.57MB	1,001	16	63	1,009,008	492.68MB
1GB	2031	16	32	2,047,248	0.97GB	2,002	16	63	2,018,016	985.36MB
2GB	4063	16	32	4,095,504	1.95GB	4,003	16	63	4,035,024	1.92GB
4GB	8146	16	32	8,211,168	3.91GB	8,006	16	63	8,070,048	3.85GB



3. HERMIT Series Industrial PCMCIA ATA Card

A: Part Number Comparison Table

Capacity	Plastic Frame-Kit			
	Standard Grade		Industrial Grade	
	Old Part No.	New Part No.	Old Part No.	New Part No.
32MB	NA	SPAFC032M-HACSCN	NA	WPAFC032M-HAISIN
64MB	NA	SPAFC064M-HACSCN	NA	WPAFC064M-HAISIN
128MB	SPAFC128M-HACSC	SPAFC128M-HACSCN	WPAFC128M-HAISI	WPAFC128M-HAISIN
256MB	SPAFC256M-HACSC	SPAFC256M-HACSCN	WPAFC256M-HAISI	WPAFC256M-HAISIN
512MB	SPAFC512M-HACSC	SPAFC512M-HACSCN	WPAFC512M-HAISI	WPAFC512M-HAISIN
1GB	SPAFC001G-HACSC	SPAFC001G-HACSCN	WPAFC001G-HAISI	WPAFC001G-HAISIN
2GB	SPAFC002G-HACSC	SPAFC002G-HACSCN	WPAFC002G-HAISI	WPAFC002G-HAISIN
4GB	SPAFC004G-HACSC	SPAFC004G-HACSCN	WPAFC004G-HAISI	WPAFC004G-HAISIN
8GB	SPAFC008G-HACSC	SPAFC008G-HACSCN	WPAFC008G-HAISI	WPAFC008G-HAISIN
16GB	SPAFC016G-HACSC	SPAFC016G-HACSCN	WPAFC016G-HAISI	WPAFC016G-HAISIN

Remarks:

- (1). All part number list include the mode setting by -PF/-PR/-PA/-UF/-UR/-UA/-AF/-AR/-AA.
- (2).HERMIT Series Industrial Rugged Metal PCMCIA ATA Card SRAFCxxxx- & WRAFCxxxx- with same changing rule as above.

B. Device Parameter Setting Comparison Table

Capacity	C.	H.	S.	LBA	Total Capacity	C.	H.	S.	LBA	Total Capacity
	Previous Parameter Setting					New Parameter Setting				
32MB	NA					500	8	16	64,000	31.25MB
64MB	NA					500	8	32	112,000	62.5MB
128MB	500	16	32	256,000	125MB	497	16	32	254,464	124.25MB
256MB	1000	16	32	512,000	250MB	984	16	32	503,808	246MB
512MB	1015	16	32	1,023,120	499.57MB	1,001	16	63	1,009,008	492.68MB
1GB	2031	16	32	2,047,248	0.97GB	2,002	16	63	2,018,016	985.36MB
2GB	4063	16	32	4,095,504	1.95GB	3,926	16	63	4,035,024	1.92GB
4GB	8146	16	32	8,211,168	3.91GB	8,027	16	63	8,070,048	3.85GB
8GB	16,000	16	63	16,128,000	7.69GB	15,733	16	63	15,858,864	7.56GB
16GB	32,235	16	63	32,492,880	15.49GB	31,479	16	63	31,730,832	15.13GB



4. HERMIT Series Industrial micro IDE Flash (MIF) Module

A: Part Number Comparison Table

Capacity	Plastic Casing / Bare (Without Casing)			
	Standard Grade		Industrial Grade	
	Old Part No.	New Part No.	Old Part No.	New Part No.
32MB	NA	SP(B)MIF032M-HACSCN	NA	WP(B)MIF032M-HAISIN
64MB	NA	SP(B)MIF064M-HACSCN	NA	WP(B)MIF064M-HAISIN
128MB	SP(B)MIF128M-HACSC	SP(B)MIF128M-HACSCN	WP(B)MIF128M-HAISI	WP(B)MIF128M-HAISIN
256MB	SP(B)MIF256M-HACSC	SP(B)MIF256M-HACSCN	WP(B)MIF256M-HAISI	WP(B)MIF256M-HAISIN
512MB	SP(B)MIF512M-HACSC	SP(B)MIF512M-HACSCN	WP(B)MIF512M-HAISI	WP(B)MIF512M-HAISIN
1GB	SP(B)MIF001G-HACSC	SP(B)MIF001G-HACSCN	WP(B)MIF001G-HAISI	WP(B)MIF001G-HAISIN
2GB	SP(B)MIF002G-HACSC	SP(B)MIF002G-HACSCN	WP(B)MIF002G-HAISI	WP(B)MIF002G-HAISIN
4GB	SP(B)MIF004G-HACSC	SP(B)MIF004G-HACSCN	WP(B)MIF004G-HAISI	WP(B)MIF004G-HAISIN
8GB	SP(B)MIF008G-HACSC	SP(B)MIF008G-HACSCN	WP(B)MIF008G-HAISI	WP(B)MIF008G-HAISIN
16GB	SBMIF016G-HACSC (No Change)		WBMIF016G-HAISI (No Change)	

Remarks:

- (1). Vertical type (Plastic Casing) MIF up to 8GB, Horizontal type (Bare - Without Casing) MIF up to 16GB.
- (2). All part number list include the orientation by -0V/-0R/-0L/-4V/-4R/-4L; and mode setting by -P/-U/-A.

B. Device Parameter Setting Comparison Table

Capacity	C.	H.	S.	LBA	Total Capacity	C.	H.	S.	LBA	Total Capacity
	Previous Parameter Setting					New Parameter Setting				
32MB	NA					500	8	16	64,000	31.25MB
64MB	NA					500	8	32	112,000	62.5MB
128MB	500	16	32	256,000	125MB	497	16	32	254,464	124.25MB
256MB	1000	16	32	512,000	250MB	984	16	32	503,808	246MB
512MB	1015	16	32	1,023,120	499.57MB	1,001	16	63	1,009,008	492.68MB
1GB	2031	16	32	2,047,248	0.97GB	2,002	16	63	2,018,016	985.36MB
2GB	4063	16	32	4,095,504	1.95GB	4,003	16	63	4,035,024	1.92GB
4GB	8146	16	32	8,211,168	3.91GB	8,006	16	63	8,070,048	3.85GB
8GB (*1)	16,000	16	63	16,128,000	7.69GB	16,000	16	63	16,128,000	7.69GB
16GB	32,235	16	63	32,492,880	15.49GB	Without Change				

Remarks:

- (*1). IC Die changed, but C.H.S. keeps the same.



5. HERMIT Series Industrial Rugged Metal 2.5" PATA (IDE) SSD

A: Part Number Comparison Table

Capacity	Standard Grade		Industrial Grade	
	Old Part No.	New Part No.	Old Part No.	New Part No.
32MB	NA	SR2IF032M-HACSCN	NA	WR2IF032M-HAISIN
64MB	NA	SR2IF064M-HACSCN	NA	WR2IF064M-HAISIN
128MB	SR2IF128M-HACSC	SR2IF128M-HACSCN	WR2IF128M-HAISI	WR2IF128M-HAISIN
256MB	SR2IF256M-HACSC	SR2IF256M-HACSCN	WR2IF256M-HAISI	WR2IF256M-HAISIN
512MB	SR2IF512M-HACSC	SR2IF512M-HACSCN	WR2IF512M-HAISI	WR2IF512M-HAISIN
1GB	SR2IF001G-HACSC	SR2IF001G-HACSCN	WR2IF001G-HAISI	WR2IF001G-HAISIN
2GB	SR2IF002G-HACSC	SR2IF002G-HACSCN	WR2IF002G-HAISI	WR2IF002G-HAISIN
4GB	SR2IF004G-HACSC	SR2IF004G-HACSCN	WR2IF004G-HAISI	WR2IF004G-HAISIN
8GB	SR2IF008G-HACSC	SR2IF008G-HACSCN	WR2IF008G-HAISI	WR2IF008G-HAISIN
16GB	SR2IF016G-HACSC (No Change)		WR2IF016G-HAISI (No Change)	

Remarks: All part number list include the mode setting by -P/-U.

B. Device Parameter Setting Comparison Table

Capacity	C.	H.	S.	LBA	Total Capacity	C.	H.	S.	LBA	Total Capacity
	Previous Parameter Setting					New Parameter Setting				
32MB	NA					500	8	16	64,000	31.25MB
64MB	NA					500	8	32	112,000	62.5MB
128MB	500	16	32	256,000	125MB	497	16	32	254,464	124.25MB
256MB	1000	16	32	512,000	250MB	984	16	32	503,808	246MB
512MB	1015	16	32	1,023,120	499.57MB	1,001	16	63	1,009,008	492.68MB
1GB	2031	16	32	2,047,248	0.97GB	2,002	16	63	2,018,016	985.36MB
2GB	4063	16	32	4,095,504	1.95GB	4,003	16	63	4,035,024	1.92GB
4GB	8146	16	32	8,211,168	3.91GB	8,006	16	63	8,070,048	3.85GB
8GB (*1)	16,000	16	63	16,128,000	7.69GB	16,000	16	63	16,128,000	7.69GB
16GB	32,235	16	63	32,492,880	15.49GB	Without Change				

Remarks:

(*1). IC Die changed, but C.H.S. keeps the same.

If you have any question on this notification, please contact with us any time.

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