

PHANES-C Series

MLC SATA III CFast Card / Optional Rugged Metal Frame



Product Feature


- MLC - NAND type flash technology
- Compliant CFast Specification V2.0
- CFast Type I form-factor
- 7 pins (data) + 17 pins (power) CFast interface
- S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology)
- Compliant with SATA 1.0a/ 2.6/ 3.0 specification
- Capacity from 8GB up to 128GB
- Performance up to 450 MB/sec (max.)

Product Specification


Compatibility	<ul style="list-style-type: none"> ➤ CFast Specification V2.0 ➤ SATA 1.0a, SATA 2.6 and SATA 3.0 ➤ Compatible with ATA/ATAPI-7 	Power consumption	<ul style="list-style-type: none"> ➤ +3.3V±5% ➤ 935 mW (Max.) ➤ 955 mW (Max.) ➤ 4.9 mW (Max.)
Flash technology	<ul style="list-style-type: none"> ➤ MLC-NAND type flash based 	Reliability	<ul style="list-style-type: none"> ➤ Static and Dynamic wearLeveling algorithms ➤ 72 bits per 1024 bytes block
Form-factor	<ul style="list-style-type: none"> ➤ CFast Type I 	Physical specification	<ul style="list-style-type: none"> ➤ Plastic frame: 10.0 ± 1 g / 0.40 oz. ➤ Metal frame: 13.0 ± 1 g / 0.46 oz.
Host Interface	<ul style="list-style-type: none"> ➤ 7 pins (data) + 17 pins (power) CFast connector 	Dimension(W x L x H)	<ul style="list-style-type: none"> ➤ 42.8 x 36.4 x 3.5 (mm)
Performance	<ul style="list-style-type: none"> ➤ SATA 1.5Gb/s, 3.0Gb/s, 6.0Gb/s ➤ 450 MB/sec (Max.) ➤ 180 MB/sec (Max.) ➤ 0.1 ms (estimated) 	Warranty	<ul style="list-style-type: none"> ➤ 2 years / Within 3k Erasing counts
Environmental specification	<ul style="list-style-type: none"> ➤ STD. 0°C~70°C/W.T. -40°C~+85°C ➤ STD. -20°C~+80°C/W.T. -50°C~+95°C 		
Conformal coating	<ul style="list-style-type: none"> ➤ Option for wide temperature 		
Humidity	<ul style="list-style-type: none"> ➤ 10% ~ 95% non-condensing 		
Vibration	<ul style="list-style-type: none"> ➤ 20 Hz to 2K Hz, 20G, 3 axes 		
Shock	<ul style="list-style-type: none"> ➤ 0.5ms, 1500 G, 3 axes 		
Altitude	<ul style="list-style-type: none"> ➤ 70,000 feet 		

Operating temperature supports standard grade 0°C ~ 70°C and wide temp. grade -40°C ~ +85°C

Part number list - MLC CFast card with standard plastic frame kit

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	8GB	SPCFA008G-PCCTMB	WPCFA008G-PCCTMB/C
	16GB	SPCFA016G-PCCTMB	WPCFA016G-PCCTMB/C
	32GB	SPCFA032G-PCCTMB	WPCFA032G-PCCTMB/C
	64GB	SPCFA064G-PCCTMB	WPCFA064G-PCCTMB/C
	128GB	SPCFA128G-PCCTMB	WPCFA128G-PCCTMB/C

Part number list - MLC CFast card with rugged metal frame kit

Product Picture	Capacity	0°C ~ 70°C	- 40°C ~ + 85°C
	8GB	SRCFA008G-PCCTMB	WRCFA008G-PCCTMB/C
	16GB	SRCFA016G-PCCTMB	WRCFA016G-PCCTMB/C
	32GB	SRCFA032G-PCCTMB	WRCFA032G-PCCTMB/C
	64GB	SRCFA064G-PCCTMB	WRCFA064G-PCCTMB/C
	128GB	SRCFA128G-PCCTMB	WRCFA128G-PCCTMB/C

Remarks : Wide temperature grade -40°C ~ +85°C with special conformal coating treatment on PCBA.

Part Number Decoder

X1 X2 X3 X4 X5 X6 X7 X8 X9 — X11 X12 X13 X14 X15 X16 / C

Example

W R C F A 1 2 8 G — P C C T M B / C

X1 Grade

S : Standard grade operating temp. 0° C~70 ° C
 W : Wide temp. grade operating temp. -40° C~+85 ° C

X2 The material of casing

P : Plastic frame kit
 R : Rugged metal frame kit

X3 X4 X5 Product category

CFA : CFast card

X6 X7 X8 X9 Capacity

008G : 8GB 064G : 64GB
 016G : 16GB 128G : 128GB
 032G : 32GB

X11 Controller

P : PHANES Series

X12 Controller version

A, B, C, D.....

X13 Controller grade

C : Commercial grade

X14 Flash IC

T : Toshiba flash IC

X15 Flash IC grade

M : MLC-NAND flash IC

X16 Generation

B : 15 nm

C Reserved for specific requirement

C : Conformal-coating