



Product Change Notice (PCN)

Changed Product: HERCULE-P Series MLC USB 2.0 Flash Disk Generation G4SB Rugged-metal Casing (with screw thread to fix cap)	Doc. No.: PCN_099-4SBSUFD-MPCTMA-1V0
	Date: 2016 / 04 / 13
Change Description and the reasons:	
<p>Toshiba MLC flash IC manufacturing process has been upgraded from A19nm to 15nm. As Toshiba MLC A19nm flash IC chips announced EOL in 2015, in order to adapt to the MLC flash trend, APRO will now transit all Toshiba MLC A19nm products to Toshiba MLC 15nm products for longer lifetime and more stable availability.</p> <p>Besides, the controller of the HERCULES-P Series MLC USB is slightly updated to support Toshiba 15nm MLC flash IC. Therefore, the 15nm MLC USB Disk is changed as HERCULES-PB Series instead of HERCULES-P Series.</p> <p>If you have any questions, please contact with your APRO Sales Account Manager.</p>	
Key Dates:	
Last Buy: 2016 / 07 / 31	
Last Shipment: 2016 / 10 / 31	

Part Number List (Max. 20 codes)			
Series		HERCULES-P	HERCULES-PB
Operating Temp.	Capacity	Before Change	After Change
Standard Temp. 0°C~70°C	4GB	SMUFD004G-MPCTMA ¹ -4SB	SMUFD004G-MPBTMB-4SB
	8GB	SMUFD008G-MPCTMA-4SB	SMUFD008G-MPBTMB-4SB
	16GB	SMUFD016G-MPCTMA-4SB	SMUFD016G-MPBTMB-4SB
	32GB	SMUFD032G-MPCTMA-4SB	SMUFD032G-MPBTMB-4SB
	64GB	NA	SMUFD064G-MPBTMB-4SB
Operating Temp.	Capacity	Before Change	After Change
Wide Temp. -45B0°C~85°C	4GB	WMUFD004G-MPCTMA-4SBC	WMUFD004G-MPBTMB-4SBC
	8GB	WMUFD008G-MPCTMA-4SBC	WMUFD008G-MPBTMB-4SBC
	16GB	WMUFD016G-MPCTMA-4SBC	WMUFD016G-MPBTMB-4SBC
	32GB	WMUFD032G-MPCTMA-4SBC	WMUFD032G-MPBTMB-4SBC
	64GB	NA	WMUFD064G-MPBTMB-4SBC

Remarks:

1. TMA vs TMB:

TMA stands for Toshiba MLC A19nm flash IC

TMB stands for Toshiba MLC 15nm flash IC

Production Management	Engineering Department	Product Management	Sales Department
			
Bonnie Pong	James Hsu	Andy Lin	Allie Chen