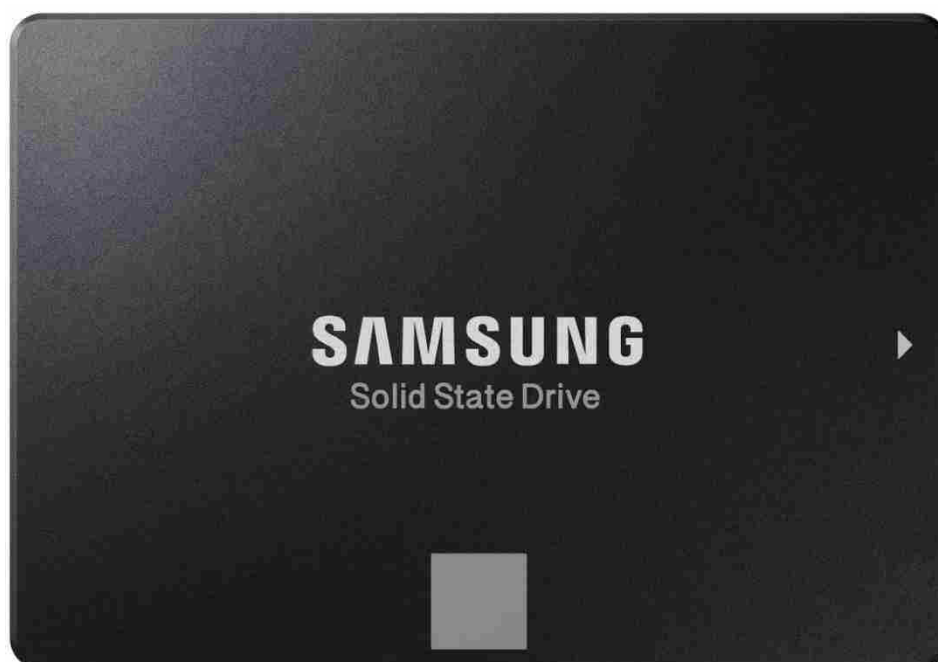


Samsung V-NAND SSD

87 EVO

! !1 Da"a S#ee"

Revision 1.1



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TECHINICAL SPECIFICATIONS

Sa (sun) SSD 456 EVO

Usa)!	C&! nt PCs					
A &"cat"on	SATA 7 G-2s Int! r#ac! , co(at"-&! *"\$ SATA 8 G-2s 3 9.: "nt! r#ac! s					
Hard* ar! In#or(at"on	Ca ac"t' 9;	<: 6G=	: 66G=	9T=	<T=	>T=
	Contro&&! r	Sa (sun) M?@ Contro&&! r				
	NAND F&as\$ M! (or'	Sa (sun) VANAND 8-"t MLC				
	DRAM Cac\$! M! (or'	: 9<M= LPDDR>	9G= LPDDR>	<G= LPDDR>	>G= LPDDR>	
	D"(! ns"ons	966/ 7B.4: / 7.4(((;				
For(Factor	<.: "nc\$					
P! r#or(anc! CU to.;<:	S! Ou! nt"a&R! ad	: 76 M=2s				
	S! Ou! nt"a&Wr"t! 8:	: 86 M=2s				
	>?= Ran. R! ad(DD9;	98,666 IOPS				
	>?= Ran. Wr"t! (DD9;	87,666 IOPS				
	>?= Ran. R! ad(DD8<;	B4,666 IOPS				
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	Act"#! CA%);	R! ad2Wr"t!	<.6W2<.:<W	<.6W2<.:<W	<.6W2<.: W	<.:<W2<.: W
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R! &"a-"&t' >:	T! (.	O ! rat"n)	6EC to 56EC			
		NonA O ! rat"n)	A>6EC to 4: EC			
	Hu("d"t'		: F to B: F nonAcond! ns"n)			
	S\$oc.	NonA O ! rat"n)	9,: 66G, durat"on& 6.: (s, 8 a"/s			
	V"-rat"on	NonA O ! rat"n)	<6H<,666H1, <6G			
MT=F		9.: ("on \$ours				
Warrant'	T=W:;	9: 6T=	866T=	766T=	9,<66T=	<,>66T=
	P! r"od		: ' ! ar&"("t! d			
Su ort"n) F! atur! s	TRIM (R! Ou"r! d OS su ort; , Gar-a)! Co&&! ct"on, S.M.A.R.T					
Data S! cur"t'	AES <: 7A-"t Fu&&D"s. Encr' t"on, TCG20 a&V<.6, Encr' t! d Dr"%! (IEEE9775;					

9; G=6 9G= I 9,666,666,666 -' t!s. A cl rta"n ort"on o# ca ac"t' (a' -! us! d #or s'st! (#&! and (a"nt! nanc! us! , t\$us t\$! actua& a#a"ka-! ca ac"t' (a' d"##! r #ro(t\$! &a-!&! d tota&ca ac"t'.

<; S! Ou! nt"a& ! r#or(anc! (! asur! (! nts ar! -as! d on Cr' sta&D's. Mar. %.: .6.<. Rando(! r#or(anc! (! asur! (! nts ar! -as! d on IO(! ! r9.9.6. P! r#or(anc! (a' %ar' -as! d on SSDs #r(* ar! %! rs"on, s'st! (\$ard* ar! 3 con#) urat"on. T! st s'st! (con#) urat"on& Int! &K Cor! "5A56? CPU L>.66 GH1, DDR8 9766MH1 4G=, OSAW"ndo*s 96 Pro 7>-"t, C\$" s! tAASUS MB5 PRO

8; S! Ou! nt"a& Wr"t! ! r#or(anc! (! asur! (! nts ar! -as! d on Int! &&) ! nt Tur-oWr"t! t! c\$no&o)'. T\$! s! Ou! nt"a& ! r#or(anc! (! asur! (! nts a#t! r Int! &&) ! nt Tur-oWr"t! r!) "on ar! 866M=2s (<: 62: 66G=, ; or : 86M=2s (9T=2<T=2>T=,.

>; Po* ! r consu(t"on s (! asur! d *"\$ IO(! ! r9.9.6 %! rs"on *"\$ Int! & Cor! "5A5566? L >>.GH1, SAMSUNG DDR> 97G=, G") a-' t! GAAM<56@, OS N W"ndo*s 96 PRO ? /7>

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5; P&! as! r! #! r to t\$! d! ta&! d *arrant' stat! (! nt \$! r! at [\\$tt.t22sa\(sun\).co\(2sa\(sun\)ssd](http://$tt.t22sa(sun).co(2sa(sun)ssd).

4; Warrant' ro% d! s co%! ra)! #or t\$! stat! d t"(! ! r"od or t\$! T=W, *"\$ c\$! %! r co(! s #rst.



PRODUCT LINEUP

Designator	Model Name	Capacity / Contents	Model Code
<: 6G=Q	MMA55E<: 6	Sa (sun) SSD 456 EVO <: 6G= Warrant' Stat! (!nt	MMA55E<: 6=W MMA55E<: 6=2AM MMA55E<: 6=2EU MMA55E<: 6=2CN MMA55E<: 6=2?R
: 66G=Q	MMA55E: 66	Sa (sun) SSD 456 EVO : 66G= Warrant' Stat! (!nt	MMA55E: 66=W MMA55E: 66=2AM MMA55E: 66=2EU MMA55E: 66=2CN MMA55E: 66=2?R
9T= C9,666G=Q;	MMA55E9T6	Sa (sun) SSD 456 EVO 9T= Warrant' Stat! (!nt	MMA55E9T6=W MMA55E9T6=2AM MMA55E9T6=2EU MMA55E9T6=2CN
<T= C<,666G=Q;	MMA55E<T6	Sa (sun) SSD 456 EVO <T= Warrant' Stat! (!nt	MMA55E<T6=W MMA55E<T6=2AM MMA55E<T6=2EU MMA55E<T6=2CN
>T= C>,666G=Q;	MMA55E>T6	Sa (sun) SSD 456 EVO >T= Warrant' Stat! (!nt	MMA55E>T6=W MMA55E>T6=2AM MMA55E>T6=2EU MMA55E>T6=2CN

* G=6 9G= 1 9,666,666,666 -'t's -' IDEMA. T\$! actual& usa-&! ca ac"t' (a' -! &!ss t\$an t\$! &a-!&!d ca ac"t'. For (or! "n#or(at'on, "nc&ud"n) -ut not &"(t!d to t\$! *arrant' ro%"d!d #or t\$'s roduct, &!as! %"s"t * * *.sa(sun).co(2ssd and * * *.sa(sun)ssd.co(.

Revision History

Revision Number	Description	Revision Date
9.6	Initial Release	November 2016
9.9	Added TurboWrite! for (Android) T= c\$(an)! C: 66 → : 86 M=2s;	January 2019