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In English

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Special note

For a detailed datasheet and other design support tools please contact IMVP@list.ti.com.

Parametrics

Compare all products in Processor V-Core Buck Controller

	TPS51622	TPS51622A	TPS51624	TPS51631	TPS51631A	TPS51650	
Vin (Min) (V)	4.5	4.5	4.5	4.5	4.5	3	View
Vin (Max) (V)	28	28	28	28	28	28	View
Vout (Min) (V)	0.5	0.5	0.5	0.5	0.5	0.25	View
Vout (Max) (V)	2.3	2.3	2.3	2.3	2.3	1.52	View
Iout (Max) (A)	40	60	60	95	95	20	View
Platform	VR12.6	VR12.6	VR12.6	VR12.5	VR12.5	IMVP7	View
Number of Phases	2	2+1	2+1	3	3	3+2	View
Regulated Outputs (#)	1	1	1	1	1	2	View
Switching Frequency (Min) (kHz)	300	300	300	300	300	250	View
Switching Frequency (Max) (kHz)	1000	1000	1500	1000	1000	600	View
Special Features	Power Good SVID	Power Good SVID	Power Good SVID	Power Good SVID	SVID	SVID	View
Iq (Typ) (mA)	0.5	0.5	0.5	0.5	0.5	5.5	View
Operating Temperature Range (C)	-40 to 105	-40 to 85	-40 to 105	-40 to 105	-40 to 105	-10 to 105	View
Package Group	VQFN	VQFN	VQFN	VQFN	VQFN	VQFN	View
Approx. Price (US\$)	1.60 1ku	1.60 1ku	1.65 1ku	1.65 1ku	1.85 1ku	2.65 1ku	View
Rating	Catalog	Catalog	Catalog	Catalog	Catalog	Catalog	View
	Sample & Buy	Sample & Buy	Sample & Buy	Sample & Buy	Sample & Buy	Sample & Buy	View

Companion products

Part number	Name	Datasheet	Additional Information	Why are these companion products?
CSD87351Q5D	Synchronous Buck NexFET™ Power Block	 Download (1805KB)	Technical Documents Tools & Software	Customers who designed with TPS51622 also designed with CSD87351Q5D
TPS22961	3.55V, 6A, 7mΩ Load Switch with Quick Output Discharge	 Online  Download (1566KB)	Technical Documents Tools & Software	Customers who designed with TPS51622 also designed with TPS22961
TPS62134D	17-V Input, Step-down Converter with Low Power Mode Input for Intel SkyLake Platform	 Online  Download (1180KB)	Technical Documents Tools & Software	Customers who designed with TPS51622 also designed with TPS62134D
TLV62150	4-17V 1A Step-Down Converter with DCS-Control™	 Online  Download (1984KB)	Technical Documents Tools & Software	Customers who designed with TPS51622 also designed with TLV62150
TSC2004	Nano-Power Touch Screen Controller with I2C Serial Interface	 Download (1603KB)	Technical Documents Tools & Software	Customers who designed with TPS51622 also designed with TSC2004