

DC-DC Solutions for Altera Programmable Logic Devices



Stratix® II, Stratix® II GX, Cyclone® II

Core Voltage: 1.2V

Input Voltage	≤200mA	≤500mA	≤1A-1.5A	≤2A-5A	≤5A-10A	≤25A
2.5V-5.5V	FAN5601 Charge Pump FAN2558 Linear FAN2559 Linear FAN5631 Charge Pump FAN5632 Charge Pump	FAN5307 Buck FAN5309 Buck*	FAN2001/02 Buck FAN2011/12 Buck FAN1112 Linear	FAN1589 Linear FAN2013 Buck FAN20LV03 TinyBuck™*	FAN5069 Controller FAN6520A Controller FAN5099 Controller FAN2106 TinyBuck™ FAN21SV06 TinyBuck™*	FAN5069 Controller FAN6520A Controller FAN5099 Controller
≤12V-24V	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller

Stratix, Stratix GX, Cyclone

Core Voltage: 1.2V

Input Voltage	≤200mA	≤500mA	≤1A-1.5A	≤2A-5A	≤5A-10A	≤25A
2.5V-5.5V	FAN5601 Charge Pump FAN2558 Linear FAN2559 Linear FAN5631 Charge Pump FAN5632 Charge Pump	FAN5307 Buck FAN5309 Buck*	FAN2001/02 Buck FAN2011/12 Buck	FAN1084 Linear FAN1581/2 Linear FAN1587A Linear FAN2013 Buck FAN20LV03 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN5099 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN6520B Controller FAN5099 Controller
≤12V-24V	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller

MAX® II

Core Voltage: 1.8V

Input Voltage	≤200mA	≤500mA	≤1A-1.5A	≤2A-5A	≤5A-10A	≤25A
2.5V-5.5V	FAN5601 Charge Pump FAN2558 Linear FAN2559 Linear	FAN5307 Buck FAN5309* Buck FAN5350 Buck	FAN2001/02 Buck FAN2011/12 Buck FAN1117A Linear FAN1540 Linear FAN1951 Linear	FAN2013 Buck FAN20LV03 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN5099 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN6520B Controller FAN5099 Controller
≤12V-24V	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN6520B Controller FAN5099 Controller

MAX II, MAX® 7000B

Core Voltage: 2.5V

Input Voltage	≤200mA	≤500mA	≤1A-1.5A	≤2A-5A	≤5A-10A	≤25A
2.5V-5.5V	FAN 2500/1 Linear FAN2502/3 Linear FAN2504/5 Linear FAN2558/9 Linear	FAN5307 Buck FAN5309* Buck	FAN2001/02 Buck FAN2011/12 Buck FAN1117A Linear FAN1086 Linear FAN1950 Linear	FAN2013 Buck FAN20LV03 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN5099 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN6520B Controller FAN5099 Controller
≤12V-24V	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller

*Product in development

MAX II, MAX 7000AE, MAX 3000A

Core Voltage: 2.5V

Input Voltage	≤200mA	≤500mA	≤1A-1.5A	≤2A-5A	≤5A-10A	≤25A
2.5V-5.5V	FAN2500/01 Linear FAN2502/3 Linear FAN2504/5 Linear FAN5331 Boost FAN5602 Charge Pump FAN2503 Linear FAN2558 Linear	FAN5307 Buck FAN5309* Buck FAN4855 Boost	FAN2001/02 Buck FAN2011/12 Buck FAN1117A Linear FAN1086 Linear FAN1539 Linear FAN1540 Linear	FAN 1084 Linear FAN1587A Linear FAN2013 Buck FAN20LV03 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN5099 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller FAN6520A Controller FAN6520B Controller FAN5099 Controller
≤12V-24V	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN5234 Controller	FAN5069 Controller FAN2106 TinyBuck FAN21SV06 TinyBuck*	FAN5069 Controller

*Product in development