

ALTERA FPGAs	Microsemi Step Down Switchers							
	Output Voltage	Input Voltage	Output Current					
			≤1A	≤2A	≤3A	≤7A	>10A	>20A
Stratix® V	0.85V	2.8V to 5.5V	NX4108 NX4110	LX7172 LX1918 LX7167(3.0V)	LX7169(3.0V)			
		4.5V to 18V		LX7104 LX7101(4.75V)	NX7102(4.75V)	NX9415*(8V) NX9548*	LX9610*(8V) NX2423* NX2138* NX2147* NX2155H*(8V)	LX1752* NX2837*(9V)
		2V to 24V		LX3005*(4.75V)			NX2124/A*	LX1675 NX2139A NX2838*
Stratix® IV Arria® II	0.9V	2.8V to 5.5V	NX4108 NX4110	LX7172 LX1918 LX7167(3.0V)	LX7169(3.0V)			
		4.5V to 18V		LX7104 LX7101(4.75V)	NX7102(4.75V)	NX9415*(8V) NX9548*	LX9610*(8V) NX2423* NX2138* NX2147* NX2155H*(8V)	LX1752* NX2837*(9V)
		2V to 24V		LX3005*(4.75V)			NX2124/A*	LX1675 NX2139A NX2838*
Stratix® IV	0.95V	2.8V to 5.5V	NX4108 NX4110	LX7172 LX1918 LX7167(3.0V)	LX7169(3.0V)			
		4.5V to 18V		LX7104 LX7101(4.75V)	NX7102(4.75V)	NX9415*(8V) NX9548*	LX9610*(8V) NX2423* NX2138* NX2147* NX2155H*(8V)	LX1752* NX2837*(9V)
		2V to 24V		LX3005*(4.75V)			NX2124/A*	LX1675 NX2139A NX2838*
Cyclone® IV	1.0V	2.8V to 5.5V	NX4108 NX4110	LX7172 LX1918 LX7167(3.0V)	LX7169(3.0V)			
		4.5V to 18V		LX7104 LX7101(4.75V)	NX7102(4.75V)	NX9415*(8V) NX9548*	LX9610*(8V) NX2423* NX2138* NX2147* NX2155H*(8V)	LX1752* NX2837*(9V)
		2V to 24V		LX3005*(4.75V)			NX2124/A*	LX1675 NX2139A NX2838*

NOTE: *Regulators, Controllers, Power Module*, (x.xV) = Minimum input voltage x.xV, **Maximum input voltage can be higher than the boundary listed

Microsemi Step Down Switchers (continued)

ALTERA FPGAs	Output Voltage	Input Voltage	Output Current					>10A	>20A
			≤1A	≤2A	≤3A	≤7A			
Stratix® III Arria® V Cyclone® V	1.1V	2.8V to 5.5V	NX4108 NX4110	LX7172 LX1918 LX7167(3.0V)	LX7169(3.0V)				
		4.5V to 18V		LX7104 LX7101(4.75V)	NX7102(4.75V)	NX9415*(8V) NX9548*	LX9610*(8V) NX2423* NX2138* NX2147* NX2155H*(8V)	LX1752* NX2837*(9V)	
		2V to 24V		LX3005*(4.75V)			NX2124/A*	LX1675 NX2139A NX2838*	
Stratix® II Arria® Cyclone® IV/III/II	1.2V	2.8V to 5.5V	NX4108 NX4110	LX7172 LX1918 LX7167(3.0V)	LX7169(3.0V)				
		4.5V to 18V		LX7104 LX7101(4.75V)	NX7102(4.75V)	NX9415*(8V) NX9548*	LX9610*(8V) NX2423* NX2138* NX2147* NX2155H*(8V)	LX1752* NX2837*(9V)	
		2V to 24V		LX3005*(4.75V)			NX2124/A*	LX1675 NX2139A NX2838*	
Stratix® Cyclone®	1.5V	2.8V to 5.5V	NX4108 NX4110	LX7172 LX1918 LX7167(3.0V)	LX7169(3.0V)				
		4.5V to 18V		LX7104 LX7101(4.75V)	NX7102(4.75V)	NX9415*(8V) NX9548*	LX9610*(8V) NX2423* NX2138* NX2147* NX2155H*(8V)	LX1752* NX2837*(9V)	
		2V to 24V		LX3005*(4.75V)			NX2124/A*	LX1675 NX2139A NX2838*	

NOTE: *Regulators, Controllers, Power Module*, (x.xV) = Minimum input voltage x.xV, **Maximum input voltage can be higher than the boundary listed