

# SM Specifications

The table below is a summary of the SM specifications

## SPECIFICATIONS

Channels	Characteristics (Per Switch)	
36 Switches  (30 Discrete, 5 Flexible, 1 Rotary)	Voltage Tolerance	-1V / 27V (Min/Max)
	Max Current	2A continuous, 3A pulsed for 100msec (per channel) (Total of 12A maximum for the module)
	Switch ON resistance	50mΩ
	Rise/Fall Time	Turn ON – Turn OFF; 100nsec
	Short Circuit Protection	Yes; max 200μsec response time

Table 17: Switch Module Electrical Specifications

## FEATURES LIST

Switch Type	Details		
		Selectable Power Rails	Switch Configurations*
3 Types of Switches	30 Discrete	Open, Global†	Unconfigured, Active Low, Active High, Open Drain, Open Source
	5 Flexible	Open, Global†, Batt, ECU5V, Ext. Voltage	
	1 Rotary		

Table 18: Switch Module Board Features

† Global rail option is only available on boards with REV2.5 and higher; it can be selected as ACC, ECU 5V, Crank, IGN3, IGN1, IGN0, Spare1, Spare2, Batt (previous modules, Global rail is replaced by IGN1)

\* Details of Switch Configurations are provided in "Switch Configurations".