

Hot Swap Power Controller Selection Guide

Micrel Advantage

- Robustness
- High Voltage Capability
- Superior Parametric Performance
- Smallest Solution Size

Device	Outputs	Input Voltage Range	Latch Off	Auto Retry	/FAULT	/POR	PWRGD or RST	OV SCR	Foldback Current Limit	Package	Comments
MIC2085	1	+2.3V to +16.5V	Yes		Yes	Yes		Yes	Yes	QSOP-16	Pin-for-pin equivalent to LTC1642; Uncommitted comparator and crowbar output.
MIC2086	1	+2.3V to +16.5V	Yes		Yes	Yes	/PWRGD	Yes	Yes	QSOP-20	Uncommitted comparator, crowbar output, and C _L discharge capability.
MIC2580A	4	±12V, +3.3V, +5V	Yes		Yes	Yes	/PWRGD		Yes	TSSOP-24	Single-slot controller for CompactPCI applications.
MIC2582	1	+2.3V to +13.2V	Yes			Yes				SOIC-8	Pin-for-pin functional equivalent to LTC1422; Dual-level fault detection.
MIC2583	1	+2.3V to +13.2V	Yes		Yes	Yes	PWRGD			QSOP-16	Dual-level fault detection; C _L discharge capability.
MIC2583R	1	+2.3V to +13.2V		Yes	Yes	Yes	PWRGD			QSOP-16	Dual-level fault detection; C _L discharge capability.
MIC2310-1	1	+10.8V to +13.2V	Yes	Yes	HW_FLT, I_FLT		PWRGD			TSSOP-24	Single FET, constant power-limit, Hot plug controller for general purpose power-limiting applications and UL60950 systems (240-VA).
MIC2310-2					HW_FLT, /I_FLT		/PWRGD				
MIC2584	2	CH1: +2.3V to +13.2V CH2: +1V to +13.2V	Yes		Yes	Yes				TSSOP-16	Output voltage tracking with dual-level fault detection.
MIC2585-1	2	CH1: +2.3V to +13.2V	Yes		Yes	Yes	PWRGD			TSSOP-24	V _{OUT} sequencing/tracking with dual-level detection and C _L discharge capability: -1: V _{OUT2} follows V _{OUT1} ; -2: V _{OUT1} follows V _{OUT2} .
MIC2585-2	2	CH2: +1V to +13.2V									
MIC2590B	10	±12V, +5V, +3.3V, and +3.3V _{AUX}	Yes		Yes					TQFP-48	Dual-slot controller for PCI v2.x and PCI-X 1.0b. Compliant applications with IPMI v1.0 support.
MIC2593	10	±12V, +5V, +3.3V, and +3.3V _{AUX}	Yes		Yes					TQFP-48	Dual-slot controller for PCI v2.x and PCI-X 1.0b. Compliant applications without IPMI v1.0 support.
MIC2341	6	+12V, +3.3V, and +3.3V _{AUX}	Yes		Yes		/PWRGD			TQFP-48	Dual-slot controller for PCI-Express systems without the SMBus interface (hardware mode only); MAIN & AUX outputs are independent.
MIC2341R				Yes			/DLY_PWRGD				
MIC2342	6	+12V, +3.3V, and +3.3V _{AUX}	Yes		Yes		/PWRGD			TQFP-48	Dual-slot controller for PCI-Express systems without the SMBus interface (hardware mode only); MAIN & AUX outputs are inter-dependent upon AUX overcurrent event.
MIC2342R				Yes			/DLY_PWRGD				
MIC2591B	6	+12V, +3.3V, and +3.3V _{AUX}	Yes		Yes		/PWRGD			TQFP-48	Dual-slot controller for PCI-Express systems with IPMI v1.0 support.
MIC2592B	6	+12V, +3.3V, and +3.3V _{AUX}	Yes		Yes		/PWRGD			TQFP-48	Dual-slot controller for PCI-Express systems where IPMI v1.0 support not needed.
MIC2586-1	1	+10V to +80V	Yes				PWRGD		Yes	SOIC-14	Multiple PWRGD outputs for sequencing, user-programmable delay.
MIC2586-2							/PWRGD				
MIC2586R-1	1	+10V to +80V		Yes			PWRGD		Yes	SOIC-14	Multiple PWRGD outputs for sequencing, user-programmable delay.
MIC2586R-2							/PWRGD				
MIC2587-1	1	+10V to +80V	Yes				PWRGD		Yes	SOIC-8	1st Generation +48V controller. Pin-for-pin equivalent to LT1641-1.
MIC2587-2							/PWRGD				
MIC2587R-1	1	+10V to +80V		Yes			PWRGD		Yes	SOIC-8	1st Generation +48V controller. Fault condition: Auto-retry. Pin-for-pin equivalent to LT1641-2.
MIC2587R-2							/PWRGD				
MIC2588-1	1	-19V to -80V	Yes				PWRGD			SOIC-8	1st Generation -48V controller; pin-for-pin equivalent to LT1640/LT1640A/LT4250.
MIC2588-2							/PWRGD				
MIC2594-1	1	-19V to -80V	Yes				PWRGD			SOIC-8	MIC2588 with Programmable input ON/OFF control.
MIC2594-2							/PWRGD				
MIC2589-1	1	-19V to -80V	Yes				PWRGD			SOIC-14	Programmable UVLO and OV protection and three PWRGD outputs for sequencing.
MIC2589-2							/PWRGD				
MIC2589R-1	1	-19V to -80V		Yes			PWRGD			SOIC-14	Programmable UVLO and OV protection and three PWRGD outputs for sequencing.
MIC2589R-2							/PWRGD				
MIC2595-1	1	-19V to -80V	Yes				PWRGD			SOIC-14	Programmable input ON/OFF control and three PWRGD outputs for sequencing.
MIC2595-2							/PWRGD				
MIC2595R-1	1	-19V to -80V		Yes			PWRGD			SOIC-14	Programmable input ON/OFF control and three PWRGD outputs for sequencing.
MIC2595R-2							/PWRGD				