Digital Point-of-Load (POL) Power Modules

BMR461

Description: The BMR461 compact PMBus compatible digital POL regulators with dynamic compensation algorithms for high power efficiency, reduce need for external filtering and intelligent power management.

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4612001	4.5-14	0.6-5.0	6	30	95.8%	Surface Mount Land grid array, Solder bump grid array	12.2 x 12.2 x 8.0 mm (0.48 x 0.48 x 0.315 in)
BMR4613001	4.5-14	0.6-5.0	12	60	96.0%		
BMR4614001	4.5-14	0.6-1.8	18	36	91.6%		

BMR462

Description: The BMR462 series are second-generation digital POL regulators.

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR462x002	4.5-14	0.6-5.0	12	60	97.1%	Through Hole, SMD, SIP	Laydown: 21.0 x 12.7 x 8.2 mm (0.827 x 0.5 x 0.323 in) SIP: 20.8 x 7.6 x 15.6 mm (0.82 x 0.3 x 0.612 in)

BMR463

Description: The BMR463 series are second-generation digital POL regulators. It enables systems architects to fully monitor and dynamically control the energy that is delivered to strategic components such as processors, FPGAs, ASICs and others, down to a very low, highly economical level.

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR463x002 BMR463x006	4.5-14	0.6-3.3	20	66	97.1	Through Hole, SMD, SIP	Laydown: 26.65 x 13.8 x 8.2 mm (1.01 x 0.543 x 0.323 in) SIP: 26.3 x 7.6 x 15.6 mm (1.035 x 0.30 x 0.614 in)
BMR463x008	4.5-14	0.6-3.3	25	82.5	97.1		

BMR464

Description: The BMR464 series are second generation digital POL regulators. It offers easy paralleling and current sharing. Up to seven modules can be paralleled, offering a maximum output current of 350A

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR464x002	4.5-14	0.6-3.3	40	132	97.2	Through Hole, SMD, SIP	Laydown: 30.85 x 20.0 x 8.2 mm (1.215 x 0.787 x 0.323 in) SIP: 33.0 x 7.6 x 18.1 mm (1.30 x 0.30 x 0.713 in)
BMR464x008	4.5-14	0.6-3.3	50	165	97.2		

Free Download

Flex Power Designer Software

Sketch, simulate, configure and monitor your digital power system with the Flex Power Designer software.

Safety Approvals

Design for Environment

RoHS compatible

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![flex logo]

BMR465

Description: The BMR 465 family provides a modular solution up to 360 A with four modules operating in parallel and a fast load transient response.

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR465x010	7.5-14	0.6-1.8	90	162	94.3	Through Hole, SMD, SIP	Laydown: 50.8 x 19.05 x 10.0 mm (2.0 x 0.75 x 0.39 in) SIP: 50.8 x 9.51 x 19.05 mm (2.0 x 0.37 x 0.75 in)

PoL Evaluation Board : ROA 128 3836
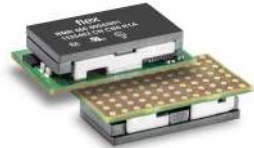
BMR466

Description: The BMR466 digital POL family provides flexible solutions with high power density, low electrical and thermal resistance to application board with only a 7mm height. Enabling system solutions up to 480A.

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4668004	4.5-14	0.6-1.8	60	108	93.6	Surface Mount Land grid array, Solder bump grid array	25.0 x 14.0 x 7.0 mm (0.984 x 0.551 x 0.276 in)

IBC Evaluation Board : ROA 128 3835

BMR467

Description: The BMR467 series are two-phase digital POL regulators that offer the ability to easily connect modules in parallel to deliver up to 480A to advanced network-processors that require high performance in power delivery and high levels of software control to improve flexibility.
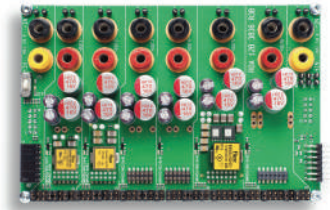
Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR467x010	7.5-14	0.6-1.8	120	216	93.2	Through Hole, SMD, SIP	Laydown: 50.8 x 19.05 x 10.4 mm (2.0 X 0.75 x 0.41 in) SIP: 50.8 x 8.2 x 19.05 mm (2.0 x 0.32 x 0.75 in)

USB-PMBus Adapter and Cable : FAB 802 0785

BMR469

Description: The BMR469 series are digital POL regulators that offer the flexible solutions to easily configure module for dual output to deliver 40A per output, or single output to deliver 80A, or connect modules in parallel to deliver up to 320A. Compact size with high power density save your board space.

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4690000	7.5-14	0.6-5	40/40 or 80	200	92.6%	SMD	25.4 x 12.7 x 11.6 mm (1.00 x 0.50 x 0.46 in)

Flex Product Selection Guide

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