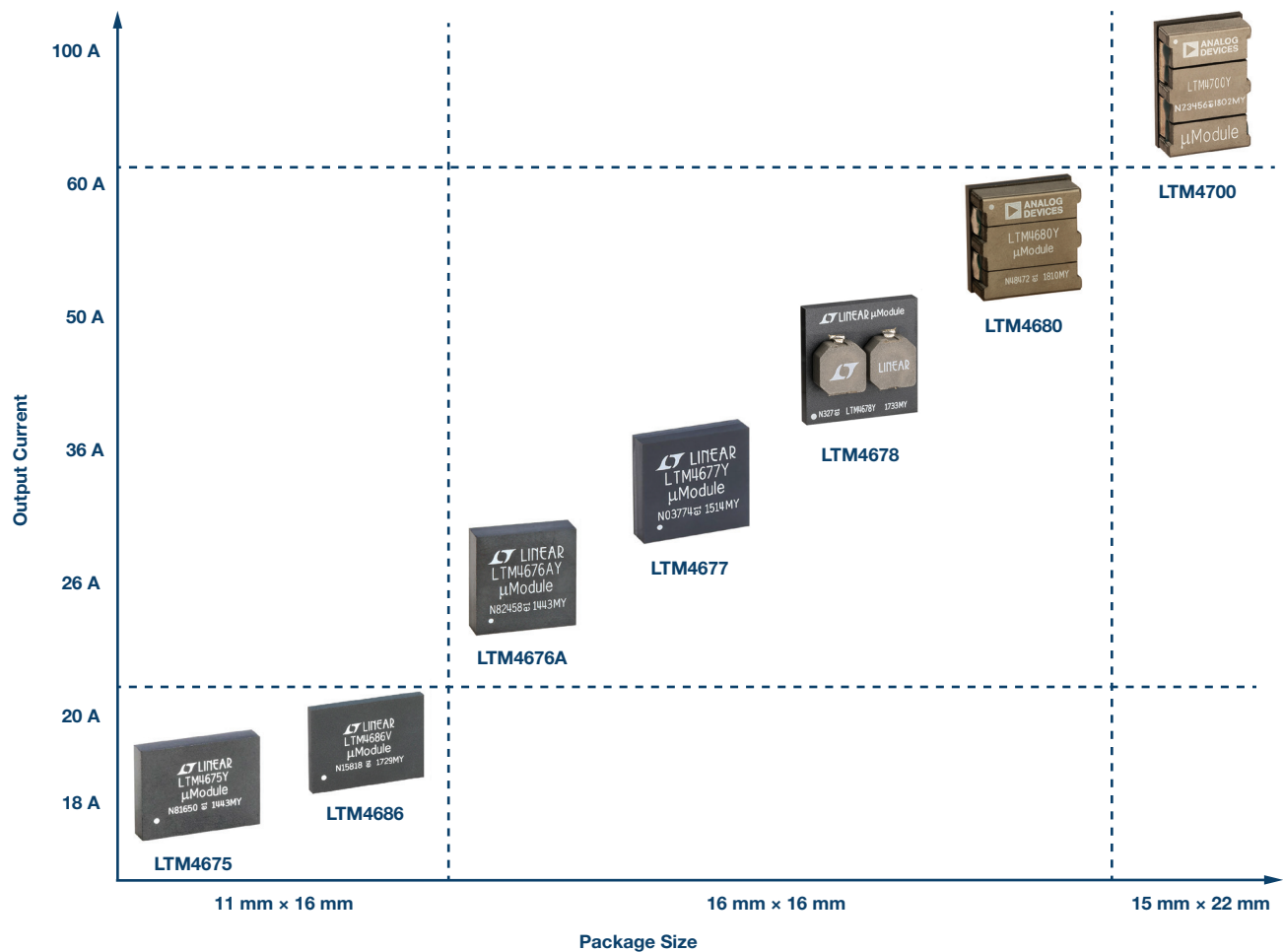


# μModule Regulators with PMBus I<sup>2</sup>C Interface



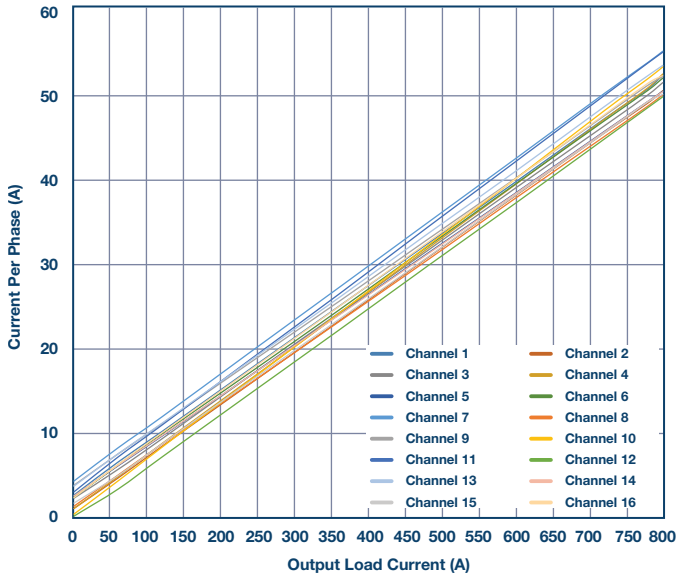
$I_{OUT}$	Single 18 A or dual 9 A	Single 20 A or dual 10 A	Single 26 A or dual 13 A	Single 36 A or dual 18 A	Single 50 A or dual 25 A	Single 60 A or dual 30 A	Single 100 A or dual 50 A
$V_{IN}$ Range	4.5 V to 17 V	4.5 V to 17 V	4.5 V to 26.5 V	4.5 V to 16 V	4.5 V to 16 V	4.5 V to 16 V	4.5 V to 16 V
$V_{OUT}$ Range	0.5 V to 5.5 V	0.5 V to 3.6 V	0.5 V to 5.5 V	0.5 V to 1.8 V	0.5 V to 3.3 V	0.5 V to 3.3 V	0.5 V to 1.8 V
Package Size (mm)	16 × 11.9 × 3.51	16 × 11.9 × 1.82	16 × 16 × 5.01	16 × 16 × 5.01	16 × 16 × 5.86	16 × 16 × 7.82	15 × 22 × 7.87
Part Number	LTM4675	LTM4686	LTM4676A	LTM4677	LTM4678	LTM4680	LTM4700
Pin Compatible	Yes		Yes		Yes		No

# LTM4700

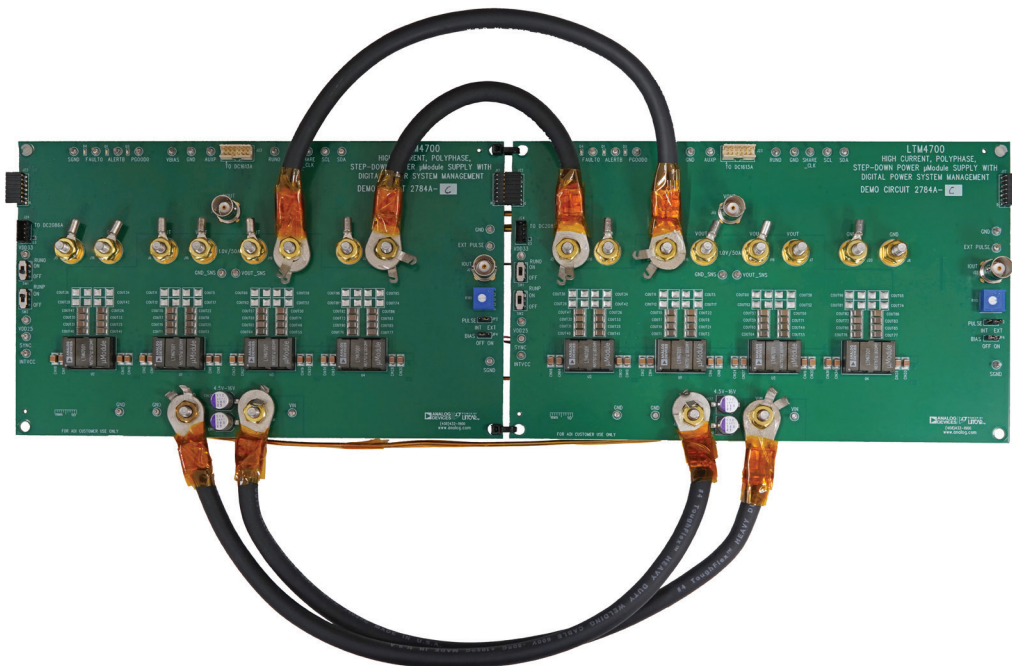
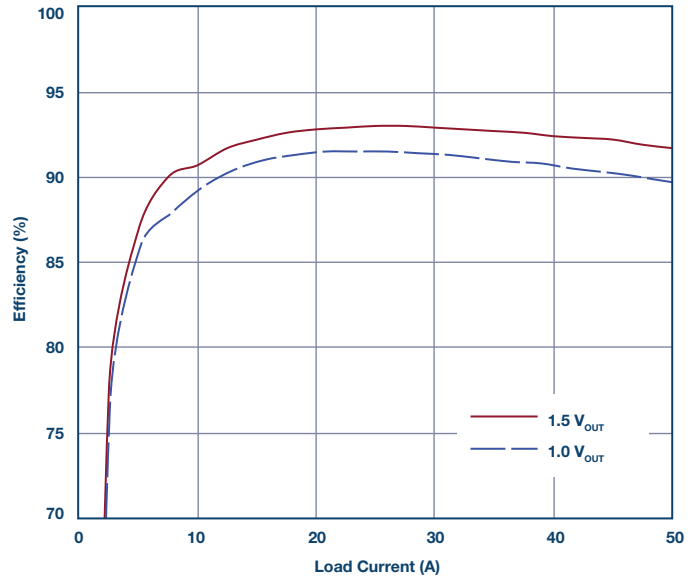
## Dual 50 A or Single 100 A $\mu$ Module<sup>®</sup> Regulator

- ▶ Input voltage range: 4.5 V to 16 V
- ▶ Output voltage range: 0.5 V to 1.8 V
- ▶ Parallel operation and current sharing
- ▶ 90% full load efficiency from 12 V<sub>IN</sub> to 1 V<sub>OUT</sub> at 100 A
- ▶  $\pm 3\%$  current readback accuracy
- ▶  $\pm 0.5\%$  maximum dc output error over temperature
- ▶ 22 mm  $\times$  15 mm  $\times$  7.82 mm BGA package

LTM4700 Current Sharing Graph Amongst 16 Phases



Single-Channel Efficiency vs. Current at 12 V Input



8 $\times$  LTM4700 connected in parallel to provide up to 800 A.

### Analog Devices, Inc. Worldwide Headquarters

Analog Devices, Inc.  
One Technology Way  
P.O. Box 9106  
Norwood, MA 02062-9106  
U.S.A.  
Tel: 781.329.4700  
(800.262.5643, U.S.A. only)  
Fax: 781.461.3113

### Analog Devices, Inc. Europe Headquarters

Analog Devices GmbH  
Otli-Aicher-Str. 60-64  
80807 München  
Germany  
Tel: 49.89.76903.0  
Fax: 49.89.76903.157

### Analog Devices, Inc. Japan Headquarters

Analog Devices, KK  
New Pier Takeshiba  
South Tower Building  
1-16-1 Kaigan, Minato-ku,  
Tokyo, 105-6891  
Japan  
Tel: 813.5402.8200  
Fax: 813.5402.1064

### Analog Devices, Inc. Asia Pacific Headquarters

Analog Devices  
5F, Sandhill Plaza  
2290 Zuchongzhi Road  
Zhangjiang Hi-Tech Park  
Pudong New District  
Shanghai, China 201203  
Tel: 86.21.2320.8000  
Fax: 86.21.2320.8222

©2019 Analog Devices, Inc. All rights reserved. Trademarks and registered trademarks are the property of their respective owners. Ahead of What's Possible is a trademark of Analog Devices. BR21151-0-3/19

[analog.com](http://analog.com)

