

LTM4700IY#PBF

Data Sheet

Dual 50A or Single 100A µModule Regulator with Digital Power System Management

Manufacturers	Analog Devices, Inc	
Package/Case	330-Lead BGA (22mm x 15mm x 7.87mm)	
Product Type	Power Management ICs	
RoHS		
Lifecycle		Images are for reference only

Please submit RFQ for LTM4700IY#PBF or Email to us: sales@ovaga.com We will contact you in 12 hours.

<u>RFQ</u>

General Description

The LTM4700 is a dual 50A or single 100A step-down μ Module[®] (power module) DC/DC regulator featuring remote configurability and telemetry-monitoring of power management parameters over PMBus— an open standard I²C-based digital interface protocol. The LTM4700 is comprised of fast analog control loops, precision mixed signal circuitry, EEPROM, power MOSFETs, inductors and supporting components. The LTM4700 product video is available on website.

The LTM4700's 2-wire serial interface allows outputs to be margined, tuned and ramped up and down at programmable slew rates with sequencing delay times. Input and output currents and voltages, output power, temperatures, uptime and peak values are readable. Custom configuration of the EEPROM contents is not required. At start-up, output voltages, switching frequency, and channel phase angle assignments can be set by pin-strapping resistors. The LTpowerPlay[®] GUI and DC1613 USB-to-PMBus converter and demo kits are available.

The LTM4700 is offered in a 15mm × 22mm × 7.87mm BGA package available with SnPb or RoHS compliant terminal finish.

APPLICATIONS

Features	Application
Dual 50A or Single 100A Digitally Adjustable Outputs with Digital Interface for Control, Compensation and Monitoring	System Optimization, Characterization and Data Mining in Prototype, Production and Field Environments
Wide Input Voltage: 4.5V to 16V	Telecom, Datacom, and Storage Systems
Output Voltage Range: 0.5V to 1.8V	
IN	
OUT	
Integrated Input Current Sense Amplifier	

2
C Serial Interface
Supports Telemetry Polling Rates Up to 125Hz
Integrated 16-Bit $\Delta\Sigma$ ADC
Constant Frequency Current Mode Control
Parallel and Current Share Multiple Modules
15mm × 22mm × 7.87mm BGA Package
Readable Data:
Input and Output Voltages, Currents, and Temperatures
Running Peak Values, Uptime, Faults and Warnings
Internal EEPROM and Fault Logging with ECC
Input and Output Voltages, Currents, and Temperatures
Running Peak Values, Uptime, Faults and Warnings
Internal EEPROM and Fault Logging with ECC
Writable Data and Configurable Parameters:
Output Voltage, Voltage Sequencing and Margining
Digital Soft-Start/Stop Ramp
Optimize Analog Loop Compensation
OV/UV/OT, UVLO, Frequency and Phasing
Output Voltage, Voltage Sequencing and Margining
Digital Soft-Start/Stop Ramp
Optimize Analog Loop Compensation
OV/UV/OT, UVLO, Frequency and Phasing

Related Products



LT3763EFE

Analog Devices, Inc TSSOP28



LT1038CK

Analog Devices, Inc TO-3



LTC4417IUF

Analog Devices, Inc QFN-24



LTC1966CMS8#PBF Analog Devices, Inc

MSOP-8P



LTM8045EY#PBF

Analog Devices, Inc BGA40





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Analog Devices, Inc MSOP10

LTC3440EMS

LTC2990IMS#PBF

Analog Devices, Inc 10MSOP

LT4295IUFD#PBF

Analog Devices, Inc 28-WFQFN