

MIC7401 5 buck 1 boost Progr Reg Eval Bd ★

Part Number: ADM00812

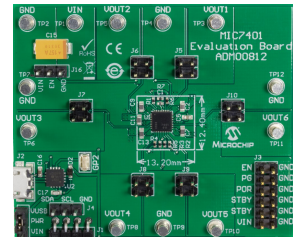
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MIC7401 Evaluation Board was developed to evaluate the capabilities of the MIC7401 Power Management Integrated Circuit (PMIC). The board features 5 DC-DC buck converters capable of delivering 3A each and a boost converter with a 200mA current capability and I2C programmable output voltages.

The MIC7401 Evaluation Board also features the MCP2221 USB to I2C bridge that enables direct communication and programming functionality by connecting the MIC7401 to the Graphic User's Interface (GUI).



Features

Package Contents

- Input voltage: 2.4V to 5.5V
- Five independent synchronous bucks up to 3A
- One independent non-synchronous boost 200mA
- 200µA quiescent current (all regulators on)
- 93% peak buck efficiency, 85% typical efficiency at 1mA
- Dual power mode: stand-by and normal mode
- I2C interface up to 3.4MHz
- MCP2221 USB to I2C bridge for easy GUI communication
- I2C on-the-fly EEPROM programmability, featuring:
 - Buck and boost output voltage scaling
 - Power-on-reset threshold and delay
 - Power-up sequencing/sequencing delay
 - Buck and boost current limit
 - Buck and boost pull-down when disabled
 - Individual ON, OFF, and standby modes
 - Soft-start and global power-good masking
- 23µA buck typical quiescent current
- 70µA boost typical quiescent current
- 1.5% output accuracy over temperature/line/load
- 2.0MHz boost switching frequency
- 1.3MHz buck operation in continuous mode
- Ultra-fast buck transient response
- less than 15mm × 15mm × 1.25mm solution size
- Thermal-shutdown and current-limit protection

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