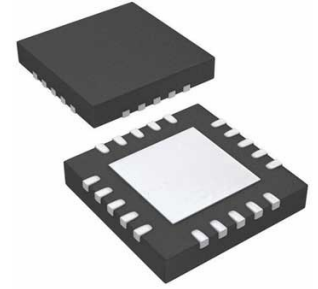


Linear Battery Charger Controller Li-Ion/Li-Pol 1000mA 4.2V 20-Pin QFN EP T/R



Images are for reference only

Manufacturer: [Microchip Technology, Inc](#)

Package/Case: QFN20

Product Type: Power Management ICs

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

[Inquiry](#)

General Description

The MCP73871 device is a 1A fully integrated linear solution for system load sharing and Li-Ion / Li-Polymer battery charge management with AC-DC wall adapter and USB port power sources selection. It's also capable of autonomous power source selection between input or battery. The MCP73871 device employs a constant current/constant voltage (CC/CV) charge algorithm with selectable charge termination point. The constant voltage regulation is fixed with four available options: 4.10V, 4.20V, 4.35V, or 4.40V.

Key Features

Integrated System Load Sharing and Battery Charge Management

Simultaneously Power the System and Charge the Li-Ion Battery

Integrated Pass Transistors

Integrated Current Sense

Integrated Reverse Discharge Protection

Selectable Input Power Sources: USB Port or AC-DC Wall Adapter

Preset High Accuracy Charge Voltage Options: 4.10V, 4.20V, 4.35V or 4.40V

Maximum 1.8A Total Input Current Control

Resistor Programmable Fast Charge Current Control: 50 mA to 1A

Resistor Programmable Termination Set Point

Selectable USB Input Current Control: Absolute Maximum: 100 mA (L) / 500 mA (H)

Automatic Recharge

Automatic End-of-Charge Control

Safety Timer With Timer Enable/Disable Control

0.1C Preconditioning for Deeply Depleted Cells

Battery Cell Temperature Monitor

Undervoltage Lockout (UVLO)

Low Battery Status Indicator (LBO)

Power-Good Status Indicator (PG)

Charge Status and Fault Condition Indicators

Recommended For You

MCP1416T-E/OT

Microchip Technology, Inc

SOT23-5

MCP1825S-1802E/DB

Microchip Technology, Inc

SOT-223

MCP1525T-I/TT

Microchip Technology, Inc

SOT23-3

MCP73831T-2ACI/OT

Microchip Technology, Inc

SOT23-5

MCP1253-ADJI/MS

Microchip Technology, Inc

MSOP8

MCP1700-3302E/TO

Microchip Technology, Inc

TO-92

MCP73832T-2ATI/OT

Microchip Technology, Inc
SOT23-5

MCP120-450DI/TO

Microchip Technology, Inc
TO-92

MCP1525-I/TO

Microchip Technology, Inc
TO92

MCP1541T-I/TT

Microchip Technology, Inc
SOT23-3

MCP73831T-2DCI/OT

Microchip Technology, Inc
SOT23-5

MCP16311T-E/MS

Microchip Technology, Inc
MSOP8

MCP16331T-E/CH

Microchip Technology, Inc
SOT23-6

MCP1754ST-5002E/CB

Microchip Technology, Inc
SOT-23

MCP1754ST-3302E/CB

Microchip Technology, Inc
SOT-23