

LT8400C --- Product Brief

e-Marker Chip for USB Type-C Cable (EMCA)

1. Features

- Compliant to Type-C r1.2 Standard
- Support CC Logic and USB PD2.0
- Support SOP'/SOP" Communication
- Support VCONN Detect
- Internal MCU and Flash for Firmware Upgrade
- Support External I2C Debug
- 1.8V/3.3V Power Supply
- Packaged in 5mmx5mm QFN40

2. General Description

LT8400C is a deeply-optimized e-Marker IC for both passive and active full featured USB Type-C cable (EMCA). It supports SOP, SOP'/SOP" communication, providing a scheme to interact between source and cable (port-to-cable).

LT8400C internally integrates an 8-bit OCM and flash memory (stacked die) to configure and run program. Online software upgrade is also supported for LT8400C.

The LT8400C is fabricated in advanced CMOS process and implemented in a small outline 5mmx5mm QFN40 package. This package is RoHS compliant and specified to operate from -40°C to +85°C.

3. Application

- Passive Full-Featured USB Type-C Cable
- Active Full-Featured USB Type-C Cable

4. Ordering Information

Table 4.1.1 Ordering Information

Part No.	Operating Temp. Range	Package	Packing
LT8400C	-40°C to +85°C	QFN40 5mm*5mm	Tray

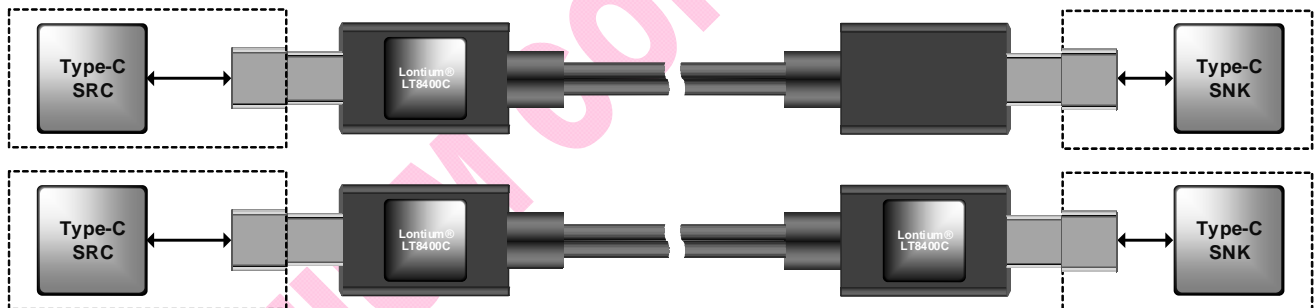


Figure 1. LT8400C Typical Application Diagram

Copyright © 2017 Lontium Semiconductor Corporation, All rights reserved.

Lontium Semiconductor Proprietary & Confidential

This document and the information it contains belong to Lontium Semiconductor. Any review, use, dissemination, distribution or copying of this document or its information outside the scope of a signed agreement with Lontium is strictly prohibited.

LONTIUM DISCLAIMS ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THOSE OF NONINFRINGEMENT, MERCHANTABILITY, TITLE AND FITNESS FOR A PARTICULAR PURPOSE. CUSTOMERS EXPRESSLY ASSUME THEIR OWN RISK IN RELYING ON THIS DOCUMENT.

LONTIUM PRODUCTS ARE NOT DESIGNED OR INTENDED FOR USE IN LIFE SUPPORT APPLIANCES, DEVICES OR SYSTEMS WHERE A MALFUNCTION OF A LONTIUM DEVICE COULD RESULT IN A PERSONAL INJURY OR LOSS OF LIFE.

Lontium assumes no responsibility for any errors in this document, and makes no commitment to update the information contained herein. Lontium reserves the right to change or discontinue this document and the products it describes at any time, without notice. Other than as set forth in a separate, signed, written agreement, Lontium grants the user of this document no right, title or interest in the document, the information it contains or the intellectual property it embodies.

Trademarks

Lontium™ and ClearEdge™ is a registered trademark of Lontium Semiconductor. All Other brand names, product names, trademarks, and registered trademarks contained herein are the property of their respective owners.

Visit our corporate web page at: www.lontiumsemi.com

Technical support: support@lontium.com

Sales: sales@lontium.com