

LT86101HC --- Product Brief

HDMI-to-Type-C Converter

1. Features

channel, a build-in frequency detector monitors clock chan

- fCompliant to HDMI1.4b, Type-C r1.2, USB PD2.0 and HDMI1.4b Alt Mode v1.0 Standards
- fSupport Hot-Plug Detect for HDMI Input Interface
- fSupport DDC and CEC
- fSupport Only AC Coupled HDMI Input Interface
- fProgrammable Input Equalization
- fProgrammable Output Swing and De-emphasis
- fUSB Full-Featured, Orientation and Role Detection
- f2 Power Roles Supported: Source and Sink
- f2 Data Roles Supported: DFP and DRP
- f3-level Current Ability Advertise for Type-C Power:
- fUSB Default, 1.5A@5V, 3A@5V
- fInternal MCU and Flash for Online Firmware Upgrade
- fSupport External I2C Debug
- f1.8V/3.3V Power Supply
- fPackaged in 5mmx5mm QFN40

2. General Description

LT86101HC is a TMDS signal re-driver with HDMI1.4b interfaced input and Type-C interfaced output. TMDS signal quality is deeply-optimized and enhanced by performing cable and board trace loss compensation.

The input receiver of LT86101HC features a multi-level programmable linear equalizer, supporting up to 25dB loss compensation due to the Inter-Symbol Interference (ISI). The output transmitter re-drives the received signal with multi-level programmable output swing and maximum 6dB de-emphasis. In coordination with DDC



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