

USB Type-C DFP Controller with I²C Interface

1. General Description

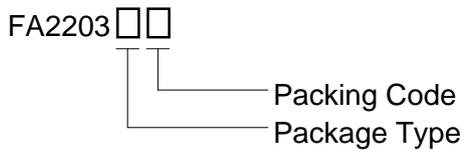
The FA2203 is a USB Type-C Downstream Facing Port (DFP) controller with an integrated 3A power switch. The FA2203 monitors the CC lines to determine when an USB device is attached. If an Upstream Facing Port (UFP) device is attached, the FA2203 applies power to VBUS and communicates the selectable VBUS current sourcing capability to the UFP via the pass-through CC line. If the UFP is attached using an electronically marked cable, the FA2203 also applies VCONN power to the cable CC pin.

The FA2203 35mΩ power switch has three selectable current limits that support with the Type-C current levels.

Features

- USB Type-C Rev. 1.1 Compliant DFP Controller
- Connector Attach/Detach Detection
- STD/1.5A/3A Capability Advertisement via CC line
- Super Speed Polarity Determination
- V_{BUS} Application and Discharge
- V_{CONN} Application to Electronically Marked Cable
- Three Input Voltage Range
 - IN1: USB Charging Supply, 4.5V~5.5V
 - IN2: V_{CONN} Supply, 3.0V~5.5V
 - AUX: Device Power Supply, 3.0V~5.5V
- On Resistance : 35mΩ (typ.)
- 28V Absolute Ratings at OUT
- Three Selectable Over Current Threshold
- 5.8V Output Over Voltage Protection
- Reverse Current Protection when Enable
- True Reverse Current Blocking when Shutdown
- Integrate I2C interface
- Package: QFN4x3-20L

Ordering Information



Package Type
NT: QFN4x3mm²-20L
Packing Code
R: Tape & Reel

Marking Information



FA2203: Product Code
YY: Year 2019→19、2020→20
WW: Week 01~53
ZZ: Series Code