AVAQ

Super Speed Basic USB Type-C Controller USB-C 5V/9V/12V/15V/18V T/R 24-Pin QFN EP

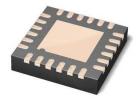|	
Manufacturer:	STMicroelectronics, Inc
Package/Case:	QFN-24
Product Type:	Interface ICs
RoHS:	RoHS Compliant/Lead free RoHS
Lifecycle:	Active

Images are for reference only

Inquiry

General Description

The STUSB1600 is an IC controller, fully compliant with the USB Type-C cable and connector specification (rev. 1.2), which addresses 5 V USB Type-C port management both on the host and/or device side. It is designed for a broad range of applications and can handle the following USB Type-C functions: attach detection, plug orientation detection, host to device connection, VCONN support, and VBUS configuration. Thanks to its 20 V technology, it implements high voltage protection features against short-circuits to VBUS up to 28 V. The device supports dead battery mode and is fully customizable thanks to an integrated non-volatile memory.

Key Features

Type-Cattachandcableorientationdetection

Powerrolesupport:source/sink/DRP

Configurablestart-upprofiles

IntegratedpowerswitchforVCONNsupply:

Programmablecurrentlimitupto600mA

Overcurrent,overvoltageandthermalprotections

Undervoltagelockout

I2Cinterfaceandinterrupt(optionalconnectiontoMCU)

IntegratedVBUSvoltagemonitoring

IntegratedVBUSandVCONNdischargepath

Recommended For You

ST3485EBDR

STMicroelectronics, Inc

SOP8

ST8024CDR

STMicroelectronics, Inc

SOP28

ST3485ECDR

STMicroelectronics, Inc

SOP8

STLC3055Q

STMicroelectronics, Inc

QFP44

ST485BDR

STMicroelectronics, Inc

SOP-8

ST8024LCDR

STMicroelectronics, Inc

SOP28

STLC3055QTR

STMicroelectronics, Inc

QFP44

STUSB4761QTR

STMicroelectronics, Inc

QFN

STLC5046

STMicroelectronics, Inc

QFP

E-STLC3055N

STMicroelectronics, Inc

QFP

STUSB03EQR

STMicroelectronics, Inc

QFN-16

STISO621TR

STMicroelectronics, Inc

SOP8

STOTG04ESQTR

STMicroelectronics, Inc

QFN

ST485ABDR

STMicroelectronics, Inc

SOP8

STR485LVQT

STMicroelectronics, Inc

DFN10