

Silego USB Charger ID products are devices that combine high-speed USB switches with a USB host charger (dedicated charger) identification circuit. These devices support the most-current USB Battery Charging specification Revision 1.2 including data contact detection and a set resistor bias for Apple* compliant devices. These devices as well support legacy USB D+/D-short detection using data-line pull up resistors.

The full-featured SLG55596A supports automatic CDP/SDP mode support when SMART-CDP = 1 in "Always Data Communication" operation. In addition, the SLG55596A also supports Full speed/Low speed mouse/keyboard wake-up from S3 (sleep) mode.



USB Host Charger ID Products

USB Host Charger Identification	SLG55570AV	SLG55596AV
External N-FET Control	X	X
Supports BC 1.1/1.2	X	X
Supports SDP in S0 Mode		X
Supports Smart-CDP in S0 Mode		X
Supports DCP in S3/S4/S5 Modes	X	X
Supports USB Keyboard/Mouse Wake-Up in S3 Mode		X
Supports Apple* 2.4A Devices	X	X
Supports Samsung** Galaxy Tab High-current Charge	X	X
High-speed USB Data Switches		X
Package	8-pin TDFN	8-pin TDFN

USB Charger ID FEATURES

- ☉ USB 2.0 Battery Charging Specifications (BC) 1.1 & 1.2
- ☉ Chinese Telecom Standard YD/T 1591-2009
- ☉ Proprietary Apple* dedicated charger scheme (2.4 A)
- ☉ Supports Samsung** Galaxy Tab charging scheme
- ☉ Supports Full/Low speed mouse/keyboard wake-up function from S3 (Sleep) mode
- ☉ Supports SDP, CDP, DCP Handshaking Protocol
- ☉ Smart-CDP Function
- ☉ Small 2x2 mm, TDFN-8 packaging
- ☉ Low supply current operation

* Apple iPhone, iPad, and iPod are trademarks of Apple Inc., registered in the U.S. and other countries.

** Samsung Galaxy Tab are trademarks of Samsung Electronics, registered in Korea and other countries.

USB Charging Port Product Selection Matrix

Function	Fast Charging Identification		
	BC 1.2	De-facto Fast Charging 2.0A	QC 2.0
Cable Advertisement		SLG55544V SLG55546V	NA
Cable Detection		SLG55544V SLG55546V	SLG4LC4480V
Special Mode Detection		SLG55544V SLG55546V	SLG4LC4480V
Power Switch		SLG55544V SLG55546V	SLG55026V
Power Switch Control Signals		SLG55544V SLG55546V	SLG4LC4480V

Support Product

Silego has officially tested over 100 USB devices, including smart phones, tablet PCs, MP3 players, GPS receivers, and other portable devices in the market. To request a test results document, please contact your local Silego sales office.

For more information please visit www.silego.com

Or email your questions to info@silego.com

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