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LED Controllers - USB2.0/RS232/Manual » Universal LED Controllers - USB2.0/RS232, up to 256 Channels » Universal Two- and Four-Channel LED Controllers with External Triggers



Universal Two- and Four-Channel LED Controllers with External Triggers

SLC-AA02-US, SLC-AA04-US, SLC-SA02-US, SLC-SA04-US



Mightex has developed a series of computer-controllable, multi-channel, universal LED drivers, which can be used to drive any type of LED in any of the three (3) modes: 'NORMAL' (or 'constant current'), 'STROBE', and/or external 'TRIGGER' mode. Each unit comes with PC-based software with a user-friendly GUI, which enables users to drive LEDs without the need to write any code. In addition, a powerful SDK and a rich RS232 command set are provided, in order for users to write their own software in order to integrate Mightex's LED drivers into their own systems. Furthermore, the drivers have a built-in security feature, allowing users to limit LED driving

current and voltage.

[Click here to download Spec sheet](#)

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ELECTRICAL SPECIFICATION:

Parameters	SLC-AAxx-xx	SLC-AVxx-xx	SLC-SAxx-xx	SLC-SVxx-xx	Unit
Power Supply Input Voltage, V_{dc}	9 ~ 24				V
Power Supply Input Current	< 4000				mA
Per Channel Driving Voltage (max) ¹	<23.5				V
Per Channel Driving Current	0 ~ 1000 ("NORMAL" MODE)				mA
	0 ~ 3500 ("STROBE" or "TRIGGER" MODE)				mA
Output Current Resolution	12				bit
Output Current Linearity	+/-4 (or +/-0.5%)				mA
Output Current Repeatability	+/-1 (or +/-0.2%)				mA
Trigger Input High Level	4.5 ~ 10.0				V
Trigger Input Low Level	0.8 (Max.)				V
Forward Voltage Monitoring Accuracy	N.A.	+/-10	N.A.	+/-10	mV

Notes: 1. Maximum Output Voltage is 0.5V less than the Power Supply Input Voltage. For instance, with a Power Supply Input Voltage of $V_{dc}=24V$, the Maximum Output Voltage V_{max} would be $V_{dc}-0.5V=23.5V$.
 2. Each output channel can be individually configured to work in one of the following three (3) modes, controlled through a PC-based software with GUI. In all three modes, overdrive current limit can be set:
Normal: Constant current output at any value from 0mA to 1000mA with 12-bit resolution.
Trigger: External trigger signal could be used to turn on each individual channel, generating driving current with any user-defined waveform. Alternatively, each output channel can work under the "FOLLOWER" mode, in which the current output follows the waveform of the trigger input; and
Strobe: Internal Strobe Generator generates frequencies as high as 25KHz. The strobe signal (i.e. current levels, duty cycle and strobe frequency) can be set through software. For AA and AV series, the strobe signal can be a user-defined arbitrary waveform with 128 data points.
 3. Arbitrary Waveform. Using the included application software or SDK or RS232 command set, user may define any arbitrary waveform using 128 data points.

TIMING SPECIFICATION:

Parameters	SLC-AAxx-xx	SLC-AVxx-xx	SLC-SAxx-xx	SLC-SVxx-xx	Unit
Timing Resolution	20				μs
# of Data Points for Waveform Definition	128			2	
Trigger Pulse Width	100 (Minimum)				μs
Max Trigger Delay	25				μs



Ordering Information:

Model	Name	Price	Buy Now	Availability
SLC-AA02-US	Universal Two-Channel LED Controllers with External Triggers, USB and RS232 Interfaces, with arbitrary waveform	\$749.00USD/ea	Buy Now	In Stock
SLC-AA04-US	Universal Four-Channel LED Controllers with External Triggers, USB and RS232 Interfaces, with arbitrary waveform	\$1,099.00USD/ea	Buy Now	In Stock
SLC-SA02-US	Universal Two-Channel LED Controllers with External Triggers, USB and RS232 Interfaces	\$589.00USD/ea	Buy Now	In Stock
SLC-SA04-US	Universal Four-Channel LED Controllers with External Triggers, USB and RS232 Interfaces	\$799.00USD/ea	Buy Now	In Stock

All prices are FOB California, unless otherwise stated.
Please call/email for volume pricing.

For sales and customer support:

Please call (USA) +1-925-218-1885 or (Canada) +1-416-840-4991,

or email sales@mightexsystems.com or sales@mightex.com.