

1 KEY FEATURES & ORDERING INFORMATION



Description

The Digital Control Adapter (DCA) enables fixtures powered by araya⁵ LED modules to be controlled by standard lighting protocols. The adapter converts standards-based lighting protocols to a digital link that connects to the araya⁵ modules.

The standards supported are:

- EcoSystem by Lutron[®]
- DMX512-A-RDM (including Bluetooth)

Key Features

- Enables EcoSystem and DMX512-A-RDM compatible product offerings
- Each adapter is addressable
- Controls continuous dimming from 100% - 1% in increments of 1%
- Controls continuous color tuning from:
 - 1650-4000K or 2700-6000K — CTM Zero, CTM One
 - 1650-4000K — CTM 1B, Bluetooth-integrated, 12V
 - 1650-8000K — CTM 1C, Bluetooth-integrated, 24V
- Controls dimming from 3050K at full intensity to 1800K at 1% intensity — DDM Zero, DDM One, and DDM 1C (Bluetooth-integrated, 24V)
- DMX adapter enables dimming, color tuning, hue and saturation features
- Compatible with araya⁵ CTM Zero and CTM One color tuning modules, and DDM Zero and DDM One dynamic dimming modules.

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General Specifications and Ordering Codes

Power	
Connector Type	2 position Molex Pico-SPOX
Wire Size	24 AWG
Operating Voltage	12V DC to 24V DC
Absolute Maximum Voltage	28V DC
Power Consumption	0.25 W
Reverse Voltage Protection	40V DC
ESD protection	Special handling not required
Environment	
Operating Temperature	0° C to 65° C
Location Type	Dry
(EcoSystem Input / LUX Output (DCA-1))	
Connector Type	Refer to "Wiring Specifications" Section
Wire Size	16 AWG solid wire (EcoSystem input); 24 AWG stranded wire (Lux output)
Wiring Class	EcoSystem Input: Class 1 or Class 2; LUX Output: Class 2
Line Voltage Miswire Protection	277V AC (EcoSystem Input)
Ordering Codes	DDM Zero / DDM One (1800 - 3050K): 45.020.008.04 (EAECOS1; one channel)
	CTM Zero / CTM One: 45.020.008.05 (EAECOS2; two channel)
DMX Input / LUX Output (DCA-1)	
Connector Type	Refer to "Wiring Specifications" Section
Wire Size	24 AWG stranded wire (DMX input and Lux output)
Wiring Class	DMX Input: Class 1 or Class 2; LUX Output: Class 2
Ordering Codes	DDM Zero / DDM One (1800 - 3050K); CTM Zero / CTM One (1650 - 4000K): 45.020.008.02 (EADDB-40-R)
	CTM Zero (2700 - 6000K): 45.020.008.03 (EADDB-60-R)
EcoSystem Input / DMX Output (DCA-2)	
Connector Type	Refer to "Wiring Specifications" Section
Wire Size	24 AWG
Wiring Class	EcoSystem Input: Class 1 or Class 2; DMX Output: Class 2
Line Voltage Miswire Protection	277V AC (EcoSystem Input)
Ordering Codes	DDM 1C (Bluetooth-integrated): 45.020.010.01 (EAECOS1-G2; one channel)
	CTM 1B and CTM 1C (Bluetooth-integrated): 45.020.010.02 (EAECOS2-G2; two channel)