

Transcend[®] Smart LED Driver Series

molex[®]

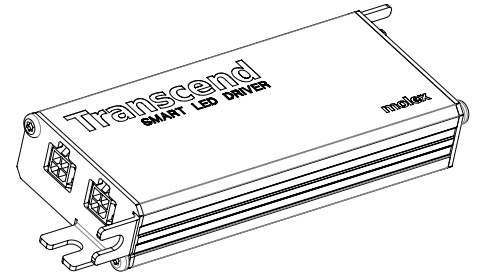
The Transcend Smart LED Driver is a compact DC/DC LED driver family designed to drive LED engines for a large variety of lighting fixtures, powered and controlled by a Transcend PoE Gateway.

Input

PoE/PoE+/UPoE voltage range of 42-57V
Connects to the Transcend PoE Gateway for data and power
Molex Micro-Fit 4-pin Connectors

Output

Constant current outputs for LED loads from 12VDC to 42VDC
Poke-in connector for LED load monitoring and an off-board thermistor
Single and dual channel versions available
Extended Voltage and Current range
Daisy-chain capability



Features and Benefits

Integrated Power Monitoring	Provides individual energy consumption feedback for each luminaire
On-board thermistor	Assures thermal protection
Accepts off-board thermistors	Fully supports thermal foldback capability
Individually addressable	Allows control of up to 8 devices per gateway*
Optimized for color-tunable fixtures	Allows color temperature adjustment, biodynamic scenes such as circadian, etc.
Dual input/output connector	Allows daisy-chaining, connection of devices in any order

* Not to exceed total gateway power

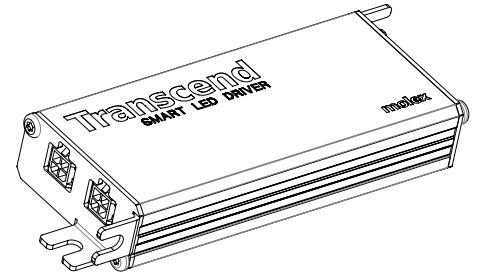
Molex Part No.	Model	Output Channels	Output Voltage	Output Current (mA)	Max Output Power (W)	Output Current Accuracy	Typ Efficiency (1)	Daisy-chain
180996-0001	Transcend Digital LED Driver	1	12-42	200 - 800	35	(+/-)3%	95	yes
180996-0002		1	12-42	800 - 1400	50	(+/-)3%	95	yes
180996-1001	Smart LED Driver Single	1	12-42	350	15	(+/-)3%	95	Yes
180996-1002			12-42	500	20	(+/-)3%	95	Yes
180996-1003			12-42	700	30	(+/-)3%	95	Yes
180996-1004			12-42	1050	45	(+/-)3%	95	Yes
180996-2001	Smart LED Driver Dual	2	12-42	350	15	(+/-)3%	95	Yes
180996-2002			12-42	500	20	(+/-)3%	95	Yes
180996-2003			12-42	700	30	(+/-)3%	95	Yes
180996-2004			12-42	1050	45	(+/-)3%	95	Yes

Transcend[®] Smart LED Driver Series

molex[®]

Usage

Each driver can be embedded in the fixture or mounted directly to it. The driver is powered and physically connected by the Transcend POE Gateway with a rugged and reliable Transcend harness cable using a Molex Micro-Fit 4-pin connection. If the power requirement for a group of devices is below 50W, a single Transcend PoE Gateway can power and control multiple drivers in a daisy-chain configuration, with the easy-to-use input and output connector scheme.



Transcend Smart LED Driver 180996-xxxx Series

- Drive Mode: Constant current
- Topology: DC/DC low voltage
- Output Power: 50W max.
- Input Voltage: IEEE802.3x standard 42-57VDC
- Number of Outputs: Single or dual
- Output Voltages: 12VDC – 42VDC
- Output Currents: 350mA – 1400mA
- Compact, light weight

Environmental

- Operating Temperatures: -40 to +50°C ambient
- Storage Temperatures: -40 to +85°C
- Humidity (non-condensing): 5% - 95% RH
- Cooling: Convection

Safety and Compliance

- Conforms to UL8750 and UL2108
- Certified to CSA22.2 (pending)
- Complies with FCC, 47CFR Part 15 Subpart B (pending)
- Complies with CE directives
- Output over-current and over-voltage protection
- Internal thermal programmable protection
- External temperature input

Electrical Specification at 25C

- Input Voltage Range: 42V – 56V
- In-rush Current: <10A, 52VDC input, cold start, full load
- Input Current: 1.5A@52VDC full load
- Efficiency: 95% Typical at 52VDC input, full load
- Max Output Power: 50W
- Constant Current Regulation: 3% over-voltage input variation
- Constant Current Accuracy: 3%
- Ripple and Noise: 700mV max, 20MHz B.V.

Mechanical

- Material: Aluminum
- Color: Black
- Weight: 98 grams typical for all models
- Dimensions: L = 95.1mm; W = 42.0mm; H = 18.8mm

www.molex.com/cl/transcend

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [LED Power Supplies](#) category:

Click to view products by [Molex](#) manufacturer:

Other Similar products are found below :

[ESS015W-1000-12](#) [EUC-075S105DT](#) [PDA-WIFI](#) [PIFC-K250F](#) [PITB-K222A](#) [ALD-514012PJ134](#) [LB240S24KH](#) [LMH020-SPLC-0000-0000001](#) [79534](#) [79535](#) [EUG-200S210DT](#) [ESS030W-1050-21](#) [ESS030W-0900-32](#) [BPOXL 4-12-035](#) [SLM160W-3.9-40-ZA](#) [ESS010W-0180-42](#) [ESS010W-0350-24](#) [ESS010W-0200-42](#) [PDA080B-1A0G](#) [ESS010W-0500-12](#) [PDA150B-S1A5G](#) [ZPS-20](#) [SLM140W-1.05-130-ZA](#) [ESS040W-1400-27](#) [ESS015W-0700-18](#) [ESS010E-0250-42](#) [EVM120W-2700-42-ECN2](#) [EDC-100S105SV-0007](#) [79278](#) [EUD-150S350DVA](#) [LWA320-C420-ARK-B](#) [50304](#) [HVG-320-36AB](#) [OT FIT 50/220-240/300 D L](#) [OT FIT 35/220-240/350 D CS L](#) [OT FIT 65/220-240/350 D CS L](#) [ELEMENT 30/220-240/700 S](#) [LC 75W 100-400MA 1-10V LP EXC](#) [LCA 35W 150-700MA ONE4ALL LP PRE](#) [LCA 50W 100-400MA ONE4ALL LP PRE](#) [LCA 50W 350-1050MA ONE4ALL LP PRE](#) [LCA 50W 350-1050MA 2XCH LP PRE](#) [LCI 150/325-1050/300 O4A SL PRE](#) [LCA 75W 100-400MA ONE4ALL LP PRE](#) [LCA 45W 500-1400MA ONE4ALL SC PRE](#) [LC 50W 100-400MA FLEXC LP EXC](#) [LCA 75W 350-1050MA ONE4ALL LP PRE](#) [LC 50W 350-1050MA FLEXC LP EXC](#) [LC 75W 350-1050MA FLEXC LP EXC](#) [LCA 75W 900-1800MA ONE4ALL LP PRE](#)