

Preliminary Product Brief *

December 17, 2003

For Discussion with Tyco Electronics Customers Only – Tyco Electronics Proprietary



Austin Lynx™ II 12V Non-isolated SMT Series

Output Current 10A; 8.3 – 14Vdc input range
Programmable output voltage from 0.75Vdc to 5.0Vdc



EZ-SEQUENCE™



The Austin Lynx™ II 12V SMT power modules are non-isolated dc-dc converters that can deliver up to 10A of output current with full load efficiency of 93% at 3.3V output. These modules provide a precisely regulated output voltage ranging from 0.75Vdc to 5.0Vdc, programmable via an external resistor over a wide input voltage range of 8.3Vdc to 14Vdc. The Austin Lynx™ II has a sequencing feature that enables designers to implement various types of output voltage sequencing when powering multiple voltages on a board. The open-frame construction and small footprint enables designers to develop cost- and space-efficient solutions. In addition to sequencing, features include remote On/Off, output voltage adjustment, remote sense, over temperature and over current protection.

Applications

- Distributed Power Architecture
- Intermediate Bus voltage applications
- Latest generation ICs (DSP, FPGA, ASIC) and Microprocessor powered applications
- Access and Optical Network Equipment
- Data processing Equipment
- Wireless and Enterprise Equipment

- Flexible Output voltage sequencing
- Delivers up to 10A of output current
- High Efficiency: 93% @ 3.3V full load
- Small size and low profile:
33.0 mm x 13.5 mm x 8.28 mm
(1.30 in x 0.53 in x 0.326 in)
- Programmable output voltage
- Exceptional Thermal Performance
- Low cost open frame design
- SMT package available in Tape & Reel
- Lead Free Directive compatible

Specification

- Precisely regulated output Voltage ($\pm 2\%$ max)
- Wide input voltage range 8.3Vdc – 14Vdc
- Line regulation 0.3% of $V_{o,set}$ (typical)
- Load regulation 0.4% of $V_{o,set}$ (typical)
- Temperature Regulation 0.4% of $V_{o,set}$ (typical)
- Ripple and noise (5Hz to 20MHz bandwidth)
– 15mV RMS (max)
– 50mV_{pk-pk} (max)
- Operating temperature range: -40°C to 85 °C
- Monotonic start-up into pre-biased output
- Remote On/Off
- Remote Sense
- Output voltage sequencing (EZ-SEQUENCE™)

Protection

- Over current protection (non-latching)
- Over temperature protection (non-latching)
- Input under voltage lockout

Options

- Remote on/off positive logic
- Remote on/Off negative logic

I) This product is intended for integration into end-use equipment. All the required procedures for CE marking of end-use equipment should be followed.
II) CSA is a registered trademark of Canadian Standards Association.
III) UL is a registered trademark of Underwriters Laboratories, Inc.
IV) VDE is a trademark of Verband Deutscher Elektrotechniker e.V.

Austin Lynx™ II 12V Non-isolated SMT Series

Non-isolated Dc-Dc converter

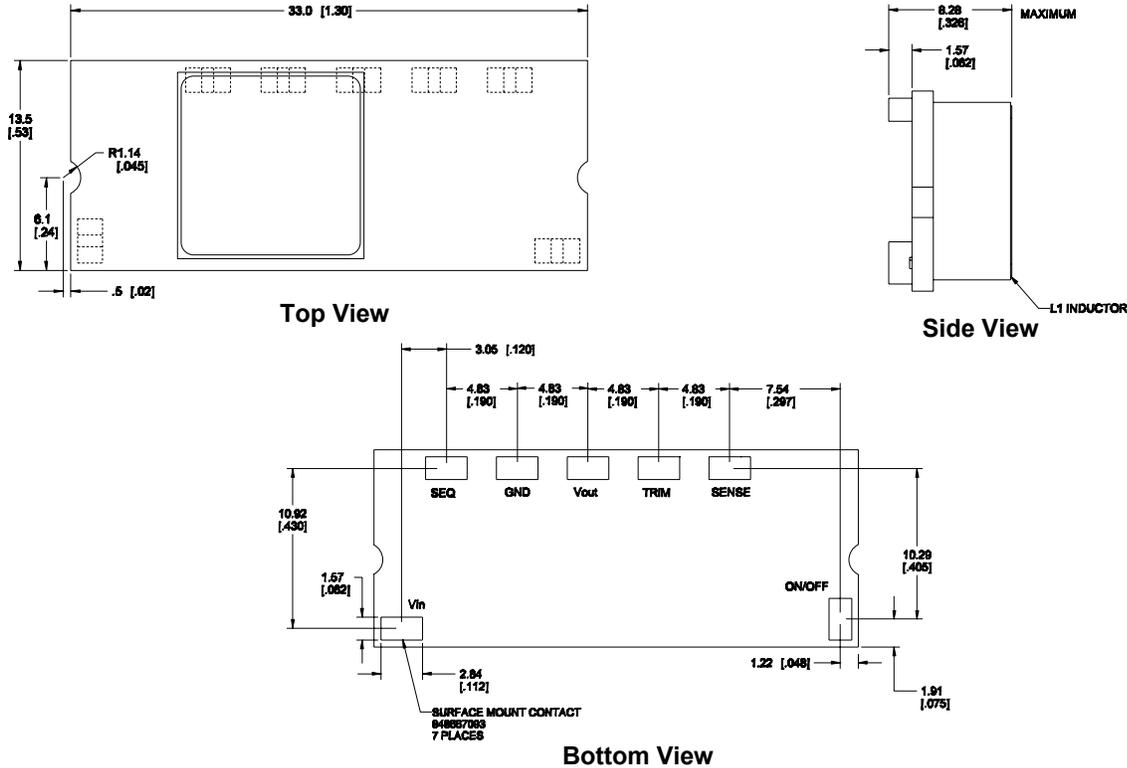
Outline Drawing and Pin-out

Physical Dimensions and design

Industry standard, with external dimensions of 33.0 mm x 13.5 mm x 8.28 mm (1.30" x 0.53" x 0.326")

Weight: 5.6 g (0.2 oz)

The Austin Lynx II series has a robust open frame construction able to withstand industry standard, through-hole handling and Surface mount soldering and cleaning processes.



Ordering Information

Please contact your Tyco Electronics sales representative for pricing, availability and optional features.

Product codes	Input Voltage	Output Voltage	Output Current	Efficiency 3.3V dc @10A	Connector Type	On/Off Logic	Comcodes
ATA010A0X3-SR	8.3 – 14Vdc	0.75–5.0Vdc	10A	93.0 %	SMT	Negative	108987538
ATA010A0X43-SR	8.3 – 14Vdc	0.75–5.0Vdc	10A	93.0 %	SMT	Positive	108988341



World Wide Headquarters

Tyco Electronics Power Systems, Inc.
 3000 Skyline Drive, Mesquite, TX 75149, USA
+1-800-843-1797
 (Outside U.S.A.: +1-972-284-2626)
www.power.tycoelectronics.com
e-mail: techsupport1@tycoelectronics.com

Europe, Middle-East and Africa Headquarters

Tyco Electronics (UK) Ltd
 Tel: +44 (0) 1344 469 300

Latin America, Brazil, Caribbean Headquarters

Tyco Electronics Power Systems
 Tel: +56 2 209 8211

India Headquarters

Tyco Electronics Systems India Pte. Ltd.
 Tel: +91 80 841 1633 x3001

Asia-Pacific Headquarters

Tyco Electronics Singapore Pte. Ltd.
 Tel: +65 6416 4283

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