

ZEBAX TECHNOLOGIES

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ZX340 9 Output Programmable Power Supply

6 Outputs

- Programmable outputs from 0.00 volts to 4.75Volts at 20mVolts per steps
- Max. of 6A per output

3 Outputs

- Programmable outputs from 0.00 volts to 4.75Volts at 20mVolts per steps
- Max. of 3A per output

All outputs support current measurement feature:

- Max. current limit shut-down.
- Load current & Power plot using Zebax ZX300 GUI.

ARM processor controlled programmable power supply, ZX300 core design utilizing USB, UART, SPI, or I2C inputs for control. See ZX300 core for more information.

Ease of use, tailored for automation, and general purpose application where reliability and integrated software solution provides level of performance for new generation of instrumentation products from Zebax.

Board size: 4"x4.5", Standard USB i/f, see [ZX300_Core](#) for details,

Control Inputs: USB, UART, SPI, or I2C .
Programmable interface voltage level for SPI, or I2C from 0.7Vdc to 4.75Volts

ZX340 Package: ZX340 , USB cable, Power Supply, UART cable interface, ZX300 GUI Software.

ZX340 Interface: ZX300 core interface connector pin assignment is define in ZX300 core specification, please see ZX300 core data.

ZX340 Board2Board : Board to board interface connectors. Please ZX300 core data for more information.

Method of use: Standalone, Stackup, or mini_Rackmount

ZX340 Overview:

6 Outputs

- 1% Output Accuracy over temperature
- Output adjustable from 0.6 to 4.75 Volts at 20mVolts per steps
- Max. of 6A per output

3 Outputs

- Programmable outputs from 0.00 volts to 4.75Volts at 20mVolts per steps
- Max. of 3A per output

All outputs support current measurement feature:

- Max. current limit shut-down.
- Load current & Power plot using Zebax ZX300 GUI.

Software features

- Enable each Output with user defined voltage and at user defined Max. current
- Variable Power supply Enabling output voltage to swing between limits set by user at the specified frequency
- Plot current or power consumption of each output rail



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ZX340 Programmable Power Supply

6 Outputs OUT1 .. OUT5

Output Accuracy over temp: 1%
Output Voltage: 0.6V (Min) 5.0V (Max)
Output current: 6A(Max)
Average Short-Circuit 0.35A OUT connected to GND
Absolute Max. Current: 10A (10sec)
Thermal shutdown: 165°C(typical)
Built in Soft-Start Inrush Supply current 400μS

Internal operating frequency: 2.2MHz (Max)
Operating Temperature: -40°C ~ +85°C
Relative Humidity: 85% at 40°C
ESD rating -+2KV
Turn-off delay 30μSec
Turn-on delay 30μSec

3 Outputs OUT7 .. OUT9 Linear LDO

Output Accuracy over temp: 1.5%(Max)
Output voltage line regulation: 0.05(typ) 0.05%(max) $\Delta V_{out}/\Delta v_{in}$ (% / V)
Output line regulation: 0.12(typ) 0.24(max) $\Delta V_{out}/\Delta i_{out}$ (% / A)
Output noise density: 1.0μV/√Hz

Output Voltage: 0.6V (Min) 5.0V (Max)
Output current: 3A(Max)
Average Short-Circuit 0.35A OUT connected to GND
Absolute Max. Current: 10A (10sec)
Over current protection
Over voltage protection
Thermal shutdown: 170°C(typical)
Operating Temperature: -40°C ~ +125°C
Relative Humidity: 85% at 40°C
ESD rating -+2KV
Turn-off delay 25μSec
Turn-on delay 25μSec

ZX340 Block Diagram

