

AC/DC Power supply controller

Manufacturers	<a href="#">Renesas Technology Corp</a>
Package/Case	SOP-8
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for iW1760B-00 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

### 1% output ripple, small solution size

The iW1760B improves on the performance of Dialog's iW1760 AC/DC controller by reducing the output voltage ripple to 1% on a 12V output voltage, increasing the Vcc input voltage range up to 25V and increasing robustness with extra protection features. The iW1760B meets the US DoE's external power supply standard and the EU's Code of Conduct, version 5, tier 2 standard by offering no-load power consumption of < 50mW while complying with active mode minimum efficiency requirements.

The iW1760B also incorporates Dialog's SmartDefender™ smart hiccup technology to help address soft short circuits in cables and connectors. [Learn more about SmartDefender smart hiccup technology here.](#)

The iW1760B is pin-to-pin and backward compatible with the iW1760.

A DiaSIM simulation model is available for the iW1760B. For more information and where to download, please visit the [DiaSIM page](#).

Application: Network Device, Monitor, Ultrabook Power Adapters up to 45W

## Features

Low Output Ripple Voltage – 120mV on a 12V or 5V Output Voltage

25V max Vcc Input Voltage Range

Meets DoE External Power Supply and EU Code of Conduct, Version 5, Tier 2 Standards  
Less than 50mW No-Load Power Consumption

Active Start-Up Reduces Start-Up Time without Increasing No-Load Power Consumption

Selectable Voltage Offset Compensation for Voltage Loss in Cables and Connectors (5 Options)  
Selectable via Single Resistor to Ground

PrimAccurate™- Primary-Side Control, No Optocoupler Needed

Intrinsically Low Noise Solution - No Audible Noise Over Entire Operating Range

Adaptive Multi-Mode PWM/PFM Control for Optimal Efficiency Across Load Range

EZ-EMI™ Design to Easily Meet Global EMI Specifications

Fast Dynamic Load Response (DLR)

SmartDefender™ Smart Hiccup Technology

Helps Address Soft-Shorts in Cables, Connectors without Latching Off

Helps Protect Cables and Connectors from Excessive Heat and Damage by Reducing Average Power During Short Circuit by at Least 50%

Fully Protected from Fault Conditions

Overvoltage/Over-temperature Protection (Latch Option)

On-Chip Internal Over-temperature Protection

Output Overvoltage and Overcurrent Protection

Input Undervoltage Protection

Sense-Resistor Short Circuit Protection

Bulk Input Capacitor Discharge Circuit

Pin-to-Pin and Backward Compatible with iW1760

## Application

Network Devices

Monitors

Ultrabooks

## Related Products



[iW3602-01](#)

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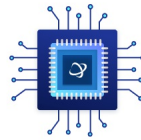
[iW1677-00](#)

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[iW1816-20-SO7](#)

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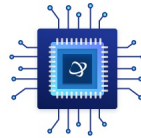
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