

Off-Line Digital Green-Mode Quasi-Resonant PWM Controller

Manufacturers	Renesas Technology Corp
Package/Case	SOP8
Product Type	AC DC Converters, Offline Switchers
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for iW1760-01 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

Off-line digital green-mode quasi-resonant PWM controller

The iW1760 is a high performance AC/DC controller designed to drive an external power N-channel MOSFET in PWM flyback power supplies. With output power capability ranging from 15W to 40W, the iW1760 is ideal for universal-input wall adapters in portable electronics and power supplies for consumer electronics.

The iW1760 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. Additional features include Dialog's proprietary EZ-EMI™ technology, 5 selectable cable and connector voltage drop compensation voltages and robust operation with full protection from over-voltage and over-temperature with the option to latch the off-state or automatically reset.

For information on the iW1760 Ultrabook™ solution, see the reference designs page.

For Lower Output Ripple See iW1760B.

Application: Power Adapters up to 40W

Features

Meets DoE external power supply regulation and the EU's CoC Version 5, Tier 2
Less than 50mW no-load power consumption

High output power capable - Range of 15W to 40W

Low 6 μ A start-up current

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 regulation

Fully protected from fault conditions
Overvoltage/Over-temperature protection (latch option)

Output overvoltage and overcurrent

Input undervoltage protection

Sense-resistor short circuit protection

Related Products



[IW3602-01](#)

Renesas Technology Corp
SO-8



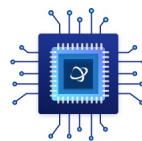
[IW1677-00](#)

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[IW1816-20-S07](#)

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[IW1691-03](#)

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Application

Power Adapters for Portable Electronics

Rapid Charge™ Enabled Adapters

Consumer Electronics Power Supplies

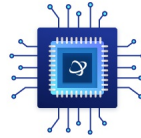
Linear AC/DC Power Supply Replacement



[iW3623-00](#)

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SOP-14



[iW657P](#)

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