

PXE1110CDM-G003

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Overview

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Digital Dual Output 1+1 VR12.5 & VR13 CPU Controller

The Infineon Technologies enterprise digital controllers provide intelligent power for Intel™ VR12.5 and VR13 applications. Command and monitor functions are controlled through the Intel SVID interface which supports 5mV/step VID table, power states (PS), and VR Data & Configuration Register requirements. Infineon's memory controllers utilize digital technology to implement all control functions, providing the ultimate system solution in terms of flexibility and stability.

Advanced control loop features, such as Active Transient Response (ATR) modulation and fast DVID response enable optimal response to high load transients. Programmable temperature compensation to current sense allows the designer to tailor the response for best load line accuracy over temperature. Best-in-class noise immunity is achieved through high oversample rate and digital current estimation.

Protection features include a comprehensive suite of sophisticated over-voltage, under-voltage, over-temperature, and over-current protections. Memory controllers also detect and protect against an open or short circuit on the remote sensing inputs. These attributes provide a complete and advanced protection feature set for microprocessor and power systems.

Summary of Features

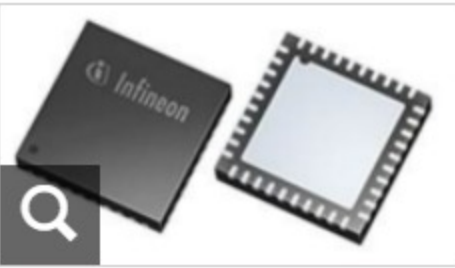
- 1+1 multiphase control
- Digital control loop
- Intel™ VR12.5 & VR13 compliant interface
- PMBus™ interface
- -5°C to +85°C ambient temperature range

Benefits

- Digital control improves transient response and reduces components
- Proprietary multiphase control boosts efficiency across all loads
- PMBus™ interface provides access for monitoring telemetry and controlling regulation functions

Potential Applications

- Server CPU power regulation
- Desktop CPU power regulation



Designers who used this product also designed with



TDA21472 |

Integrated Power Stages



IRF9310 |

P-Channel Power MOSFET



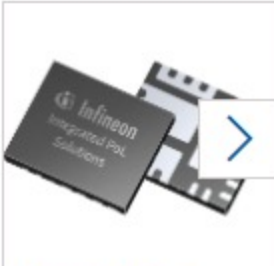
BAT64-04W |

High Speed Switching,
Clipping and Clamping



SLB 9670VQ2.0 |

OPTIGA™ TPM - Trusted
Platform Module



IR38363M |

Integrated POL Voltage
Regulators



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I need FIT data for my product. How can I get access to it?

In order to get access to product FIT (failure in time) data, please contact our support center at <https://www.infineon.com/support>

Technical Support

The best way to reach out to our Applications Engineers is through our Developer Community <https://community.infineon.com> Our Applications Engineers moderate th...

Partner Finder for support, software, hardware, dev tools, services

Infineon's partners offer products and services that complement our semiconductor device solutions to accelerate your development efforts and time to market. You can find them here:...

Package information

The package information is available on [our homepage](#). Please note, that they are divided into the subcategories "Leaded and through-hole", "Surface Mounted Devices" and "Special Packages". You wi...

Notes on processing

Information regarding reflow profile, soldering temperature, soldering profile and further processing notes for most of the discrete products are mentioned in the Application Note....

Design-in support

We offer design-in support for your application. You can use our Infineon Solution Finder: <https://www.infineon.com/solutionFinder...>

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