

Product Overview

NCP81148: Synchronous Buck Controller with Auto Power Saving

For complete documentation, see the data sheet.

NCP81148 is a dual synchronous buck controller that is optimized for converting the battery voltage or adaptor voltage into multiple power rails required in desktop and notebook system. NCP81148 consists of two buck switching controllers with fixed 5.0 V output on channel 2, 3.3 V on channel 1 and two on-board LDOs with three outputs: 5 V / 60 mA and 3.3 V or 12 V / 10 mA. NCP81148 supports high efficiency, fast transient response and provides power good signals. ON Semiconductor proprietary adaptive-ripple control enables seamless transition from CCM to DCM, where converter runs at reduced switching frequency with much higher efficiency at light load. The part operates with supply voltage ranging from 5.5 V to 28 V.

Part Electrical Specifications

Product	Compliance	Status	Topology	Phases	Control Mode	V _{CC} Min (V)	V _{CC} Max (V)	f _{sw} Typ (kHz)	Package Type
NCP81148MNTWG	Pb-free Halide free	Active	Step-Down	1	Voltage Mode	5.5	28	300, 400, 600	QFN-28

For more information please contact your local sales support at www.onsemi.com.

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