Controller 56-Pin VFQFPN EP Tray

Manufacturer:	STMicroelectronics, Inc
Package/Case:	QFN56
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Obsolete

Images are for reference only

Inquiry

General Description

The L6718 is a very compact, digitally controlled and cost effective dual controller designed to power Intel® VR12 processors. Dedicated pinstrapping is used to program the main parameters. The device features from 2 to 4-phase programmable operation for the core section providing 2 embedded drivers. A single-phase with embedded driver and with independent control loop is used for GFX. The L6718 supports power state transitions featuring VFDE and a programmable DPM, maintaining the best efficiency over all loading conditions without compromising transient response. Second generation LTB Technology™allows a minimal cost output filter providing fast load transient response. The controller assures fast and independent protection against load overcurrent, under/overvoltage and feedback disconnections. The device is available in VFQFPN56, 7x7 mm compact package with exposed pad.

Key Features

VR12 compliant with 25 MHz SVID bus rev. 1.5

Second generation LTB Technology™

Very compact dual controller:

Up to 4 phases for core section with 2 internal drivers

1 phase for GFX section with internal driver

Up to 4 phases for core section with 2 internal drivers

1 phase for GFX section with internal driver

Input voltage up to 12 V

SMBus interface for power management

SWAP, Jmode, multi-rail only support

Programmable offset voltage

Single NTC design for TM, LL and IMON thermal compensation (for each section)

VFDE for efficiency optimization

DPM - dynamic phase management

Dual differential remote sense

0.5% output voltage accuracy

Full-differential current sense across DCR

AVP - adaptive voltage positioning

Programmable switching frequency
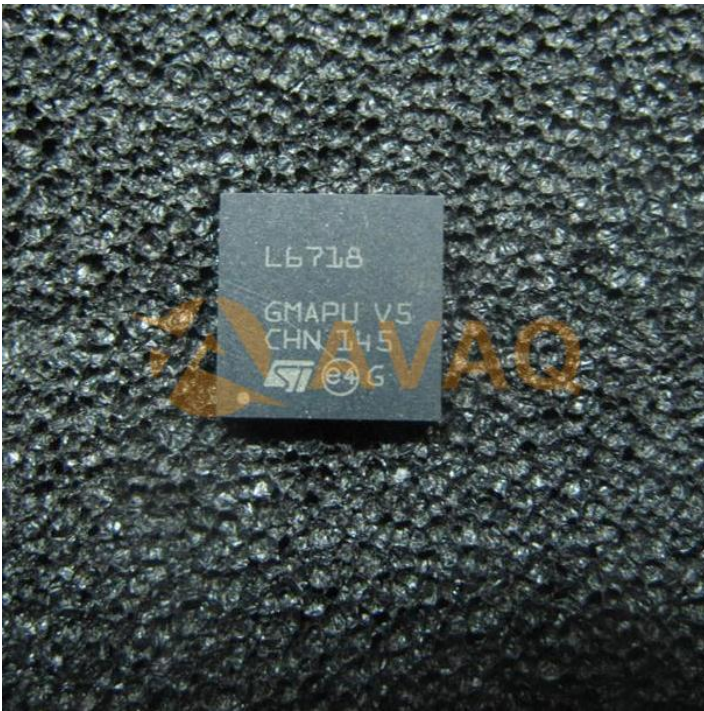
Dual current monitor

Pre-biased output management

High-current embedded drivers optimized for 7 V operation

OC, OV, UV and FB disconnection protection

Dual VR_READY

VFQFPN56 7x7 mm package with exposed pad

Recommended For You

L6574D

STMicroelectronics, Inc

SOP16

L6375S

STMicroelectronics, Inc

SOP8

L6201PS

STMicroelectronics, Inc

HSOP20

L6562N

STMicroelectronics, Inc

DIP8

L6384ED013TR

STMicroelectronics, Inc

SOP8

L6387ED

STMicroelectronics, Inc

SOP8

L6561D

STMicroelectronics, Inc

SOP-8

L6574

STMicroelectronics, Inc

DIP16

L6506D

STMicroelectronics, Inc

SOP20

L6395DTR

STMicroelectronics, Inc

SOP8

L6388ED013TR

STMicroelectronics, Inc

SOP-8

L6384ED

STMicroelectronics, Inc

SOP8

L6388ED

STMicroelectronics, Inc

SOP8

L6562ATD

STMicroelectronics, Inc

SOP

L6376D

STMicroelectronics, Inc

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