Description

This document details the custom configuration that is programmed into the one-time-programmable (OTP) memory of the 9FGV1008CQ501LTGI. Please refer to the device datasheet for further information about the device.

General Configuration

Parameter	Value	Units
Device I ² C Address	0xD0	_
Default Configuration at I ² C Mode	0	_

Frequency Overview

Parameter	Configuration 0	Configuration 1	Configuration 2	Configuration 3	Units
Input	50	50	50	50	MHz
REF 0	—	—	—	—	—
Output 0	100	100	100	100	MHz
Output 1	125	156.25	125	156.25	MHz

Configuration 0 Parameters: SEL[1:0] = 00

Input frequency: 50MHz; crystal load capacitance: 7.97pF

Parameter	REF 0	Output 0	Output 1	Units
Frequency	50	100	125	MHz
Default Output Status	Off	On	On	—
VDDO Voltage	Low	1.8	1.8	V
Output Type	LVCMOS	LP-HCSL	LVDS	-
Spread Spectrum	—	—	—	%
Spread Spectrum Modulation	—	—	—	kHz
LP-HCSL Impedance	—	100	_	Ω

Configuration 1 Parameters: SEL[1:0] = 01

Input frequency: 50MHz; crystal load capacitance: 7.97pF

Parameter	REF 0	Output 0	Output 1	Units
Frequency	50	100	156.25	MHz
Default Output Status	Off	On	On	—
VDDO Voltage	Low	1.8	1.8	V
Output Type	LVCMOS	LP-HCSL	LVDS	—
Spread Spectrum	—	—	—	%
Spread Spectrum Modulation	—	—	_	kHz
LP-HCSL Impedance	—	100	—	Ω

Configuration 2 Parameters: SEL[1:0] = 10

Input frequency: 50MHz; crystal load capacitance: 7.97pF

Parameter	REF 0	Output 0	Output 1	Units
Frequency	50	100	125	MHz
Default Output Status	Off	On	On	—
VDDO Voltage	Low	3.3	3.3	V
Output Type	LVCMOS	LP-HCSL	LVDS	—
Spread Spectrum	_	—	_	%
Spread Spectrum Modulation	_	—	_	kHz
LP-HCSL Impedance	_	100	_	Ω

Configuration 3 Parameters: SEL[1:0] = 11

Input frequency: 50MHz; crystal load capacitance: 7.97pF

Parameter	REF 0	Output 0	Output 1	Units
Frequency	50	100	156.25	MHz
Default Output Status	Off	On	On	—
VDDO Voltage	Low	3.3	3.3	V
Output Type	LVCMOS	LP-HCSL	LVDS	—
Spread Spectrum	—	—	—	%
Spread Spectrum Modulation	—	—	—	kHz
LP-HCSL Impedance	_	100	_	Ω

Package Outline Drawings and Marking Diagrams

Refer to the datasheet for detailed information pertaining to package outline drawings and marking diagrams.

Ordering Information

Orderable Part Number	Carrier Type	Temperature	Crystal
9FGV1008CQ501LTGI	Tray	-40° to +85°C	50MHz Internal
9FGV1008CQ501LTGI8	Tape and Reel	-40° to +85°C	50MHz Internal

Revision History

Revision Date	Description of Change
September 17, 2020	Initial release.

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