



PCIE RTD3

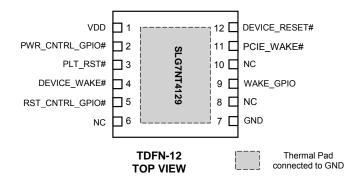
General Description

Silego SLG7NT4129 is a low power and small form device. The SoC is housed in a 2.5mm x 2.5mm TDFN package which is optimal for using with small devices.

Features

- Low Power Consumption
- Dynamic Supply Voltage
- RoHS Compliant / Halogen-Free
- Pb-Free TDFN-12 Package

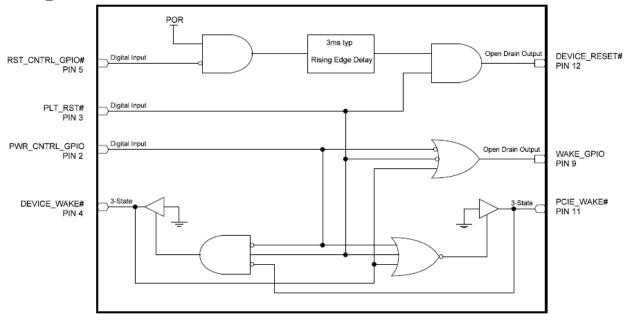
Pin Configuration



Output Summary

- 2 Outputs Open Drain
- 2 Outputs 3-State

Block Diagram





Pin Configuration

Pin#	Pin Name	Туре	Pin Description
1	VDD	PWR	Supply Voltage
2	PWR_CNTRL_GPIO#	Input	Digital Input
3	PLT_RST#	Input	Digital Input
4	DEVICE_WAKE#	Input/Output	3-State
5	RST_CNTRL_GPIO#	Input	Digital Input
6	NC		Keep floating or connect to GND
7	GND	GND	Ground
8	NC		Keep floating or connect to GND
9	WAKE_GPIO	Output	Open Drain
10	NC		Keep floating or connect to GND
11	PCIE_WAKE#	Input/Output	3-State
12	DEVICE_RESET#	Output	Open Drain
Exposed	Exposed Bottom Pad	GND	Ground
Bottom Pad			

Ordering Information

Part Number	Package Type
SLG7NT4129V	V = TDFN-12
SLG7NT4129VTR	VTR = TDFN-12 - Tape and Reel (3k units)



Absolute Maximum Conditions

Parameter	Min.	Max.	Unit
V _{HIGH} to GND	-0.3	7	V
Voltage at input pins	-0.3	7	V
Current at input pin	-1.0	1.0	mA
Storage temperature range	-65	150	°C
Junction temperature		150	°C

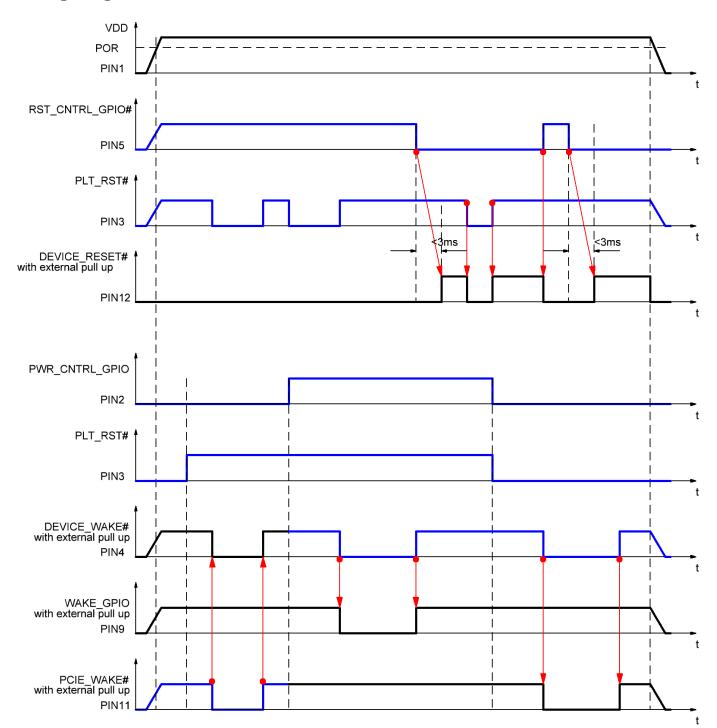
Electrical Characteristics

(@ 25°C, unless otherwise stated)

Symbol	Parameter	Condition/Note	Min.	Тур.	Max.	Unit			
V_{DD}	Supply Voltage		1.71		3.6	V			
ΙQ	Quiescent Current	Static inputs and outputs		1		μΑ			
T _A	Operating Temperature		-40	25	85	°C			
ΙL	Input Leakage Current	Leakage Current for Digital Inputs or outputs in High impedance state	-100		100	nA			
\/	LICH Loyal Input Valtage	Logic Input, at VDD=1.8V	1.1			V			
V_{IH}	HIGH-Level Input Voltage	Logic Input, at VDD=3.3V	1.8			V			
V	LOW Lovel Input Voltage	Logic Input, at VDD=1.8V			0.65	V			
V_{IL}	LOW-Level Input Voltage	Logic Input, at VDD=3.3V			1.1	V			
I _{IH}	HIGH-Level Input Current	Logic Input Pins; V _{IN} =VDD	-1		1	μΑ			
I _{IL}	LOW-Level Input Current	Logic Input Pins; V _{IN} =0V	-1		1	μΑ			
T _{DLY0}	Delay0 Time		2.1	3	3.9	ms			
V	Output Voltage High	3-State, OE=1, I _{OH} = 100μA at VDD=1.8V	1.66			V			
V_{OH}	Output voltage riigii	3-State, OE=1, I _{OH} = 3mA at VDD=3.3V	2.1			v			
	3-State, OE=1, I_{OL} = 100 μ A at VDD=1.8V				0.04				
		3-State, OE=1, I _{OL} = 3mA at VDD=3.3V			0.81				
V_{OL}	Output Voltage Low	Open Drain, I _{OL} = 5mA, at VDD=1.8V			0.340	V			
		Open Drain, I _{OL} = 20mA at VDD=3.3V			0.605				
V_{O}	Maximal Voltage Applied to any PIN in High-Impedance State				VDD	V			
		3-State, OE=1, V _{OL} =0.15V, at VDD=1.8V	0.34						
	LOW-Level Output Current	3-State, OE=1, V _{OL} = 0.4V, at VDD=3.3V	1.836			m ^			
I _{OL}		Open Drain, V _{OL} =0.15V, at VDD=1.8V	2.7			mA			
		Open Drain, V _{OL} = 0.4V, at VDD=3.3V	14.6						
T _{SU}	Start up Time	After VDD reaches 1.6V level		7		ms			

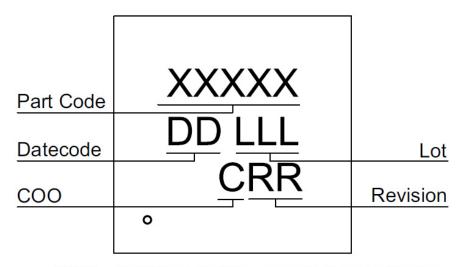


Timing diagram





Package Top Marking



XXXXX - Part ID Field: identifies the specific device configuration

DD – Date Code Field: Coded date of manufacture

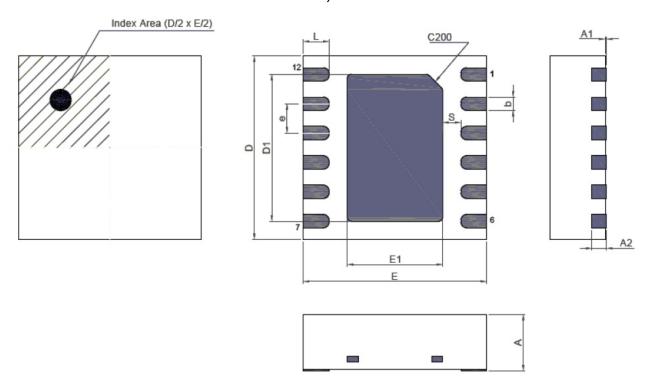
LLL – Lot Code: Designates Lot #
C – COO: Specifies Country of Origin
RR – Revision Code: Device Revision

Datasheet Revision	Programming Code Number	Part Code	Revision	Date
1.0	04	4129V	AA	01/23/2013



Package Drawing and Dimensions

12 Lead TDFN Package JEDEC MO-252, Variation 2525E



Unit: mm

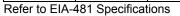
Symbol	Min	Nom.	Max	Symbol	Min	Nom.	Max
Α	0.70	0.75	0.80	D1	1.95	2.00	2.05
A1	0.005	-	0.060	E1	1.25	1.30	1.35
A2	0.15	0.20	0.25	е	0.40 BSC		
b	0.13	0.18	0.23	L	0.30	0.35	0.40
D	2.45	2.50	2.55	S	0.18	-	-
E	2.45	2.50	2.55				

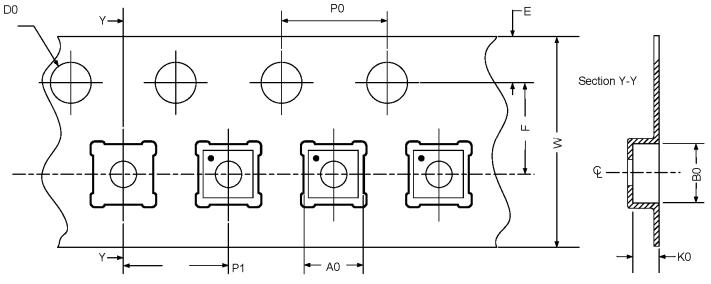
Tape and Reel Specification

	# of	Nominal	Max	Units	Reel &		er A	Lead	ler B	Pocke	t (mm)
Package Type	Pins	Package Size (mm)	per reel		Hub Size (mm)	Pockets	Length (mm)	Pockets	Length (mm)	Width	Pitch
TDFN 12L 2.5x2.5mm 0.4P Green	12	2.5x2.5x0.75	3000	3000	178/60	42	168	42	168	8	4

Carrier Tape Drawing and Dimensions

Package Type	Pocket BTM Length (mm)	Pocket BTM Width (mm)	Pocket Depth (mm)	Index Hole Pitch (mm)	Pocket Pitch (mm)	Index Hole Diameter (mm)	Index Hole to Tape Edge (mm)	Index Hole to Pocket Center (mm)	Tape Width (mm)
	Α0	В0	K0	P0	P1	D0	E	F	w
TDFN 12L 2.5x2.5mm 0.4P Green	2.75	2.75	1.05	4	4	1.55	1.75	3.5	8





Recommended Reflow Soldering Profile

Please see IPC/JEDEC J-STD-020: latest revision for reflow profile based on package volume of 4.6875 mm³ (nominal). More information can be found at www.jedec.org.



Datasheet Revision History

Date	Version	Change
11/08/2012	0.1	New design
11/22/2012	0.11	Changed PIN12 type to Open Drain
11/26/2012	0.20	Changed DEVICE_WAKE# and PCIE_WAKE# functionality to bi-directional
01/18/2013	0.21	Some typos in PIN out table are fixed
01/23/2013	1.0	Production Release
06/11/2013	1.01	Housekeeping (fixed block diagram)



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