

## Features

- AEC-Q100 Grade 1 temperature range
- 44 fixed frequencies between 4 MHz and 125 MHz
- Supply voltage of 1.5 V, 1.8 V, 2.5 V and 3.3 V  
([Contact SiTime](#) for 1.2 V)
- Low power consumption of 2.5 mA typical at 1.8 V
- LVCMOS compatible output
- 1  $\mu$ A standby current
- 450 fs RMS phase jitter
- Industry-standard packages: 2.0 x 1.6, 2.5 x 2.0, 3.2 x 2.5 mm ([Contact SiTime](#) for 1.6 x 1.2 mm)
- RoHS and REACH compliant, Lead-free, Halogen-free and Antimony-free

## Applications

- Automotive Camera and Sensors, Smart Mirrors
- Advanced Driver Assistance Systems
- Automotive Infotainment Systems
- In-vehicle networking and SerDes
- Industrial sensors

Related products for [automotive applications](#)

For aerospace and defense applications SiTime recommends using only [Endura™ ruggedized products](#)



## Electrical Specifications

**Table 1. Electrical Characteristics**

All Min and Max limits are specified over temperature for all supply voltages with 15 pF output load unless otherwise stated. Typical values are specified at 25°C and at the nominal value of the highest voltage option for that parameter.

Parameters	Symbol	Min.	Typ.	Max.	Unit	Condition
<b>Frequency Range</b>						
Fixed Frequency Options	f	5, 10, 20, 25, 31.25, 33.333333, 50, 62.5, 78.125, 100, 125			MHz	SiT1625A
		4, 4.096, 6, 8, 8.192, 9, 12, 16, 18, 18.432, 19.2, 24, 24.576, 30.72, 32, 32.768, 36, 38.4, 48, 61.44, 64, 72, 76.8, 96, 122.88				SiT1625B
		7, 13, 21, 27, 39, 63, 91, 117				SiT1625C
<b>Frequency Stability and Aging</b>						
Frequency Stability	F_stab	-50	-	+50	ppm	Inclusive of Initial tolerance at 25°C, 1st year aging at 25°C, and variations over operating temperature -40°C to 125°C, rated power supply voltage and load (15 pF $\pm$ 10%)
		-30	-	+30		Supported for -40°C to 105°C
		-25	-	+25		Supported for -40°C to 85°C
<b>Operating Temperature Range</b>						
Operating Temperature Range	T_use	-40	-	+125	°C	AEC-Q100 Grade 1
		-40	-	+105	°C	AEC-Q100 Grade 2
		-40	-	+85	°C	AEC-Q100 Grade 3
<b>Supply Voltage</b>						
Supply Voltage	Vdd_1.5	1.35	1.5	1.65	V	<a href="#">Contact SiTime</a> for 1.2 V option ( $\pm$ 5%)
	Vdd_1.8	1.62	1.8	1.98		
	Vdd_2.5	2.25	2.5	2.75		
	Vdd_3.3	2.97	3.3	3.63		
	Vdd_YY	1.62	-	3.63		

Table 1. Electrical Characteristics (continued)

Parameters	Symbol	Min.	Typ.	Max.	Unit	Condition
<b>Current Consumption</b>						
Current Consumption	I <sub>dd</sub>	–	2.5	3.2	mA	f = 27 MHz, no load, V <sub>dd_1.5</sub>
		–	2.5	3.2	mA	f = 27 MHz, no load, V <sub>dd_1.8</sub>
		–	2.6	3.4	mA	f = 27 MHz, no load, V <sub>dd_2.5</sub>
		–	2.7	3.6	mA	f = 27 MHz, no load, V <sub>dd_3.3</sub>
		–	2.7	3.6	mA	f = 27 MHz, no load, V <sub>dd_YY</sub> , tested at V <sub>dd_3.3</sub>
Standby Current	I <sub>std</sub>	–	0.15	1.1	μA	Up to 125°C, $\overline{ST} = 0$
		–	0.15	0.6		Up to 105°C, $\overline{ST} = 0$
Mid-Standby Current	I <sub>midstd</sub>	–	0.33	0.6	mA	Up to 125°C, $\overline{MS} = 0$
<b>LVCOS Output Characteristics</b>						
Duty Cycle	DC	48	–	52	%	All V <sub>dd</sub> levels
Rise/Fall Time	T <sub>r</sub> , T <sub>f</sub>	–	–	2.3	ns	V <sub>dd</sub> = 1.62 V – 3.63 V, 20% - 80%, 15 pF Load, f = 27 MHz
		–	–	2.5	ns	V <sub>dd</sub> = 1.35 V – 1.65 V, 20% - 80%, 15 pF Load, f = 27 MHz
Output High Voltage	V <sub>OH</sub>	90%	–	–	V <sub>dd</sub>	IOH = -4 mA (V <sub>dd</sub> = 3.0 V or 3.3 V) IOH = -3 mA (V <sub>dd</sub> = 2.8 V and V <sub>dd</sub> = 2.5 V) IOH = -2 mA (V <sub>dd</sub> = 1.8 V) IOH = -1.5 mA (V <sub>dd</sub> = 1.5 V)
Output Low Voltage	V <sub>OL</sub>	–	–	10%	V <sub>dd</sub>	IOL = 4 mA (V <sub>dd</sub> = 3.0 V or 3.3 V) IOL = 3 mA (V <sub>dd</sub> = 2.8 V and V <sub>dd</sub> = 2.5 V) IOL = 2 mA (V <sub>dd</sub> = 1.8 V) IOL = 1.5 mA (V <sub>dd</sub> = 1.5 V)
<b>Input Characteristics</b>						
Input High Voltage	V <sub>IH</sub>	70%	–	–	V <sub>dd</sub>	Pin 1, OE or $\overline{ST}$ or $\overline{MS}$
Input Low Voltage	V <sub>IL</sub>	–	–	30%	V <sub>dd</sub>	Pin 1, OE or $\overline{ST}$ or $\overline{MS}$
Input Pull-down Impedance	Z <sub>in</sub>	2	–	–	MΩ	Pin 1, OE or $\overline{ST}$ or $\overline{MS}$ or NC
<b>Startup and Resume Timing</b>						
Startup Time	T <sub>start</sub>	–	0.5	0.7	ms	Measured from the time V <sub>dd</sub> reaches its rated minimum value
Enable/Disable Time	T <sub>oe</sub>	–	–	150	ns	f = 27 MHz. For other frequencies, T <sub>oe</sub> = 100 ns + 3*cycles
Resume Time (Standby)	T <sub>resume</sub>	–	0.5	0.7	ms	
Resume Time (Mid-Standby)		–	0.1	0.11	ms	
<b>Jitter and Phase Noise</b>						
RMS Period Jitter <sup>[1]</sup>	T <sub>jitt</sub>	–	1	1.2	ps	f = 27 MHz, measured based on 10k cycles, V <sub>dd</sub> = 1.8 V
RMS Phase Jitter (random) <sup>[2]</sup>	T <sub>phj_fc_2</sub>	–	0.45	0.700	ps	f = 27 MHz, 12 kHz – 20 MHz integration bandwidth, phase noise measured 12 kHz – 10 MHz and extended flat above 10 MHz
	T <sub>phj_5</sub>	–	0.33	0.625	ps	f = 27 MHz, 12 kHz – 5 MHz integration bandwidth, phase noise measured 12 kHz – 5 MHz
	T <sub>phj_fc48</sub>	–	0.42	0.700	ps	f = 48 MHz, 12 kHz – 20 MHz integration bandwidth, phase noise measured 12 kHz – 20 MHz
Phase Noise	PN	–	-145	–	dBc/Hz	f = 27 MHz, f <sub>offset</sub> = 100 kHz
Spurious Phase Noise	T <sub>spn</sub>	–	-85	–	dBc	f = 27 MHz, 1.8 V, 12 kHz – 5 MHz offset frequency range
Power Supply-Induced Jitter Sensitivity	PSJS	–	0.8	–	ps/mV	50 mV peak-peak on V <sub>dd</sub> = 3.3 V

**Note:**

1. Appropriate when driving digital logic for use in setup and hold time equations.
2. Appropriate when driving phase locked loops in high-speed SerDes applications.

**Table 2. Absolute Maximum Limits**

Operation outside the absolute maximum ratings may cause permanent damage to the part.  
Performance of the IC is only guaranteed within the operational specifications, not at absolute maximum ratings.

Parameter	Min.	Max.	Unit
Storage Temperature	-65	150	°C
Supply Voltage (Vdd)	-0.5	4	V
Electrostatic Discharge (HBM)	–	2000	V
Electrostatic Discharge (CDM)	–	750	V
Soldering Temperature (follow standard Pb free soldering guidelines) <sup>[3]</sup>	–	260	°C
Junction Temperature <sup>[4]</sup>	–	150	°C

**Note:**

- Please refer to [SiTime Manufacturing Notes](#).
- Exceeding this temperature for extended period of time may damage the device.

**Table 3. Thermal Considerations<sup>[5]</sup>**

Package	$\theta_{JA}$ (°C/W)	$\theta_{JB}$ (°C/W)	$\theta_{JC}$ (°C/W)	$\Psi_{JT}$ (°C/W)
3225	208	76	134	15.7
2520	187	78	133	16.4
2016	190	75	167	14.9
1612	TBD	TBD	TBD	TBD

**Note:**

- $\theta_{JA}$ ,  $\Psi_{JT}$ ,  $\theta_{JB}$  and  $\theta_{JC}$  are provided according to JEDEC standards 51-2A, 51-7, 51-8, and 51-12.01 with a 25°C ambient and 36.3 mW power consumption. The conduction thermal resistances  $\theta_{JB}$  and  $\theta_{JC}$  are obtained with the assumption that all heat flows from the junction to a heat sink through either the solder pads ( $\theta_{JB}$ ) or the top of the package ( $\theta_{JC}$ ). The values of  $\theta_{JA}$  and  $\Psi_{JT}$  are strongly application dependent, and we report values based on the JEDEC thermal environment of 2s2p board and still air.  $\theta_{JA}$  is the thermal resistance to ambient on a JEDEC PCB - it is a conservative estimate, since the JEDEC board does not have vias to PCB planes in the vicinity of the package.  $\Psi_{JT}$  can be used to estimate the junction temperature from accurate measurements of the temperature at the top of the package if the thermal environment is similar to the JEDEC environment.

**Table 4. Maximum Operating Junction Temperature<sup>[6]</sup>**

Max Operating Temperature (ambient)	Maximum Operating Junction Temperature
85°C	95°C
105°C	115°C
125°C	135°C

**Note:**

- Datasheet specifications are not guaranteed if junction temperature exceeds the maximum operating junction temperature.

**Table 5. Environmental Compliance**

Parameter	Condition/Test Method
Mechanical Shock	MIL-STD-883F, Method 2002
Mechanical Vibration	MIL-STD-883F, Method 2007
Temperature Cycle	JESD22, Method A104
Solderability	MIL-STD-883F, Method 2003
Moisture Sensitivity Level	MSL1 @ 260°C

## Pin Description

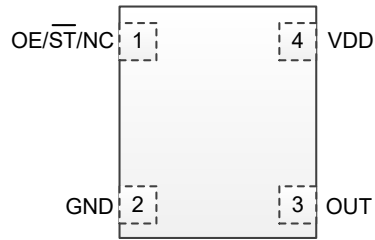


Figure 1. Pin Assignments (Top View)

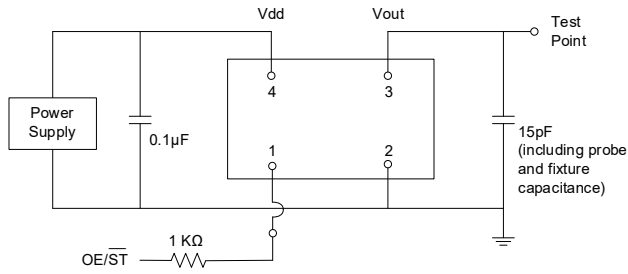
Table 6. Pin Description

Pin	Symbol		Function
1	OE/ $\overline{ST}$ / $\overline{MS}$ / NC	Output Enable (OE)	H <sup>[7]</sup> : specified frequency output L: output is high impedance. Only output driver is disabled
		Standby ( $\overline{ST}$ )	H <sup>[7]</sup> : specified frequency output L: output is low (weak pull down). Device goes to sleep mode
		Mid-Standby ( $\overline{MS}$ )	H <sup>[7]</sup> : specified frequency output L: output is low (weak pull down). Device goes to mid-standby mode
		No Connect (NC)	Any voltage between GND and Vdd or Open <sup>[8]</sup> . Specified frequency output. Pin 1 has no function.
2	GND	Power	Electrical ground <sup>[8]</sup>
3	OUT	Output	Oscillator output
4	VDD	Power	Power supply voltage <sup>[8]</sup>

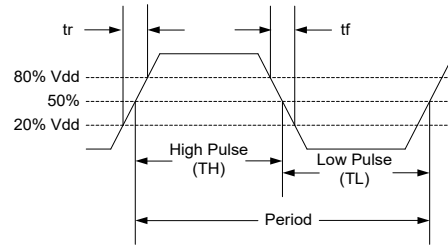
**Notes:**

7. In OE or  $\overline{MS}$  or  $\overline{ST}$  mode, a pull-up resistor of 10 K $\Omega$  or less is recommended if pin 1 is not externally driven. If pin 1 needs to be left floating, use the NC option.
8. A capacitor of value 0.1  $\mu$ F between VDD and GND is required.

## Test Circuit and Waveform



**Figure 2. Test Circuit<sup>[9]</sup>**

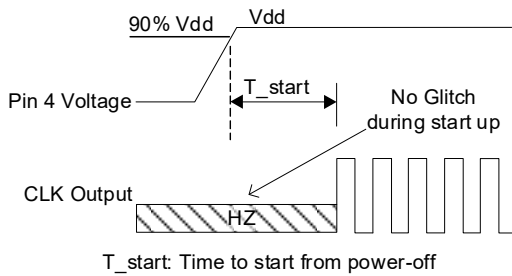


**Figure 3. Waveform<sup>[9]</sup>**

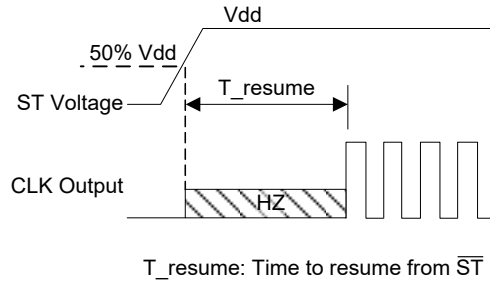
**Note:**

9. Duty Cycle is computed as  $Duty\ Cycle = TH/Period$ .

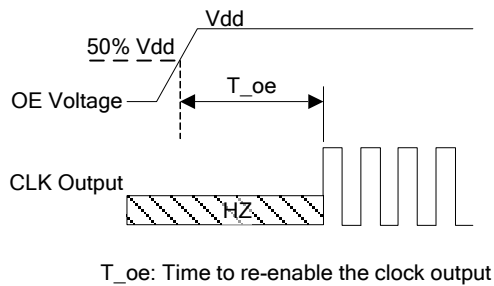
## Timing Diagrams



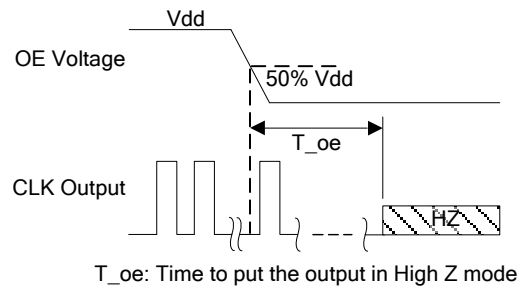
**Figure 4. Startup Timing (OE/ST Mode)<sup>[10]</sup>**



**Figure 5. Standby Resume Timing ( $\overline{ST}$  Mode Only)<sup>[10]</sup>**



**Figure 6. OE Enable Timing (OE Mode Only)**



**Figure 7. OE Disable Timing (OE Mode Only)**

**Note:**

10. SiT1625 has "no runt" pulses and "no glitch" output during startup or resume.

## Programmable Drive Strength

The SiT1625 includes a programmable drive strength feature to provide a simple, flexible tool to optimize the clock rise/fall time for specific applications. Benefits from the programmable drive strength feature are:

- Improves system radiated electromagnetic interference (EMI) by slowing down the clock rise/fall time.
- Improves the downstream clock receiver's (RX) jitter by decreasing (speeding up) the clock rise/fall time.
- Ability to drive large capacitive loads while maintaining full swing with sharp edge rates.

Table 7 defines the rise/fall time settings for a given supply voltage and 15 pF capacitive load.

## Rise/Fall Time (20% to 80%) vs Supply Voltage

Table 7. Rise/Fall Times for  $C_{LOAD}$  of 15pF

Rise/Fall Time Typ (ns)				
Drive Strength (15 pF load)	1.5 V	1.8 V	2.5 V	3.3 V
"-" default	1.16	1.07	0.93	0.79
A	1.47	1.38	1.19	1.02
B	2.09	1.98	1.78	1.49
C	3.75	3.62	3.31	2.85

### Dimensions and Patterns

**Package Size – Dimensions (Unit: mm)<sup>[1]</sup>**

**1.6 x 1.2 x 0.75 mm**

	SYMBOL	MIN	NOM	MAX
TOTAL THICKNESS	A	0.700	0.750	0.800
STAND OFF	A1	0.000	0.020	0.050
LEAD THICKNESS	A3	0.203 BSC		
BODY SIZE	X	D	1.180	1.230
	Y	E	1.610	1.660
LEAD WIDTH	b	0.150	0.200	0.250
	b1	0.300	0.350	0.400
LEAD LENGTH	L	0.480	0.580	0.680
LEAD PITCH	e	0.650 BSC		
PACKAGE TOLERANCE	aaa	0.150		
MOLD FLATNESS	bbb	0.100		
COPLANARITY	ccc	0.080		
LEAD DISTANCE	K	0.50 REF		
NOTE				
1. ALL DIMENSIONS IN MM				

PKG INFO		DRAWING NO.	
4L PQFN 1.230x1.660x0.750 mm		POD-098-PQFN-004-G01612	
DATE	5/16/2025	REV	SHEET
		A01	01

**Package Size – Dimensions (Unit: mm)<sup>[1]</sup>**

**2.0 x 1.6 x 0.75 mm**

	SYMBOL	MIN	NOM	MAX
TOTAL THICKNESS	A	0.700	0.750	0.800
STAND OFF	A1	0.000	0.020	0.050
BODY SIZE	X	D	1.600 BSC	
	Y	E	2.000 BSC	
LEAD WIDTH	b	0.430	0.480	0.530
	b1	0.230	0.280	0.330
LEAD LENGTH	L	0.580	0.680	0.780
LEAD PITCH	e	0.930 BSC		
PACKAGE TOLERANCE	aaa	0.050		
MOLD FLATNESS	bbb	0.100		
COPLANARITY	ccc	0.080		
NOTE				
1. ALL DIMENSION IN MM				

PKG INFO		DRAWING NO.	
4L PQFN 1.600x2.000x0.750 mm		POD-095-PQFN-004-G02016	
DATE	5/12/2025	REV	SHEET
		A02	01

**Recommended Land Pattern (Unit: mm)<sup>[12]</sup>**

Dimensions and Patterns (continued)

Package Size – Dimensions (Unit: mm) <sup>[11]</sup>	Recommended Land Pattern (Unit: mm) <sup>[12]</sup>																																																																																				
<p><b>2.5 x 2.0 x 0.75 mm</b></p> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th></th> <th>SYMBOL</th> <th>MIN</th> <th>NOM</th> <th>MAX</th> </tr> </thead> <tbody> <tr> <td>TOTAL THICKNESS</td> <td>A</td> <td>0.700</td> <td>0.750</td> <td>0.800</td> </tr> <tr> <td>STAND OFF</td> <td>A1</td> <td>0.000</td> <td>0.020</td> <td>0.050</td> </tr> <tr> <td rowspan="2">BODY SIZE</td> <td>X</td> <td colspan="3">D 2.500 BSC</td> </tr> <tr> <td>Y</td> <td colspan="3">E 2.000 BSC</td> </tr> <tr> <td rowspan="2">LEAD WIDTH</td> <td>b</td> <td>0.300</td> <td>0.350</td> <td>0.400</td> </tr> <tr> <td>b1</td> <td>0.450</td> <td>0.500</td> <td>0.550</td> </tr> <tr> <td>LEAD LENGTH</td> <td>L</td> <td>0.650</td> <td>0.750</td> <td>0.850</td> </tr> <tr> <td>LEAD PITCH</td> <td>e</td> <td colspan="3">1.250 BSC</td> </tr> <tr> <td>PACKAGE TOLERANCE</td> <td>aaa</td> <td colspan="3">0.050</td> </tr> <tr> <td>MOLD FLATNESS</td> <td>bbb</td> <td colspan="3">0.100</td> </tr> <tr> <td>COPLANARITY</td> <td>ccc</td> <td colspan="3">0.080</td> </tr> </tbody> </table> <p style="margin-top: 10px;"><b>NOTE</b> 1. ALL DIMENSION IN MM</p> <div style="text-align: right; margin-top: 10px;"> </div> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="2">PKG INFO</th> <th colspan="2">DRAWING NO.</th> </tr> </thead> <tbody> <tr> <td colspan="2">4L PQFN 2.500x2.000x0.750 mm</td> <td colspan="2">POD-096-PQFN-004-G02520</td> </tr> <tr> <td>DATE</td> <td>5/12/2025</td> <td>REV</td> <td>A01</td> </tr> <tr> <td></td> <td></td> <td>SHEET</td> <td>01</td> </tr> </tbody> </table>		SYMBOL	MIN	NOM	MAX	TOTAL THICKNESS	A	0.700	0.750	0.800	STAND OFF	A1	0.000	0.020	0.050	BODY SIZE	X	D 2.500 BSC			Y	E 2.000 BSC			LEAD WIDTH	b	0.300	0.350	0.400	b1	0.450	0.500	0.550	LEAD LENGTH	L	0.650	0.750	0.850	LEAD PITCH	e	1.250 BSC			PACKAGE TOLERANCE	aaa	0.050			MOLD FLATNESS	bbb	0.100			COPLANARITY	ccc	0.080			PKG INFO		DRAWING NO.		4L PQFN 2.500x2.000x0.750 mm		POD-096-PQFN-004-G02520		DATE	5/12/2025	REV	A01			SHEET	01											
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	SYMBOL	MIN	NOM	MAX																																																																																	
TOTAL THICKNESS	A	0.700	0.750	0.800																																																																																	
STAND OFF	A1	0.000	0.020	0.050																																																																																	
BODY SIZE	X	D 3.200 BSC																																																																																			
	Y	E 2.500 BSC																																																																																			
LEAD WIDTH	b	0.800	0.900	1.000																																																																																	
	b1	0.800	0.900	1.000																																																																																	
LEAD LENGTH	L	0.700	0.800	0.900																																																																																	
LEAD PITCH	e	2.100 BSC																																																																																			
RADIUS	F	0.450 REF																																																																																			
	F1	0.200 REF																																																																																			
PACKAGE TOLERANCE	aaa	0.050																																																																																			
MOLD FLATNESS	bbb	0.100																																																																																			
COPLANARITY	ccc	0.080																																																																																			
PKG INFO		DRAWING NO.																																																																																			
4L PQFN 3.200x2.500x0.750 mm		POD-097-PQFN-004-G03225																																																																																			
DATE	5/12/2025	REV	A01																																																																																		
		SHEET	01																																																																																		

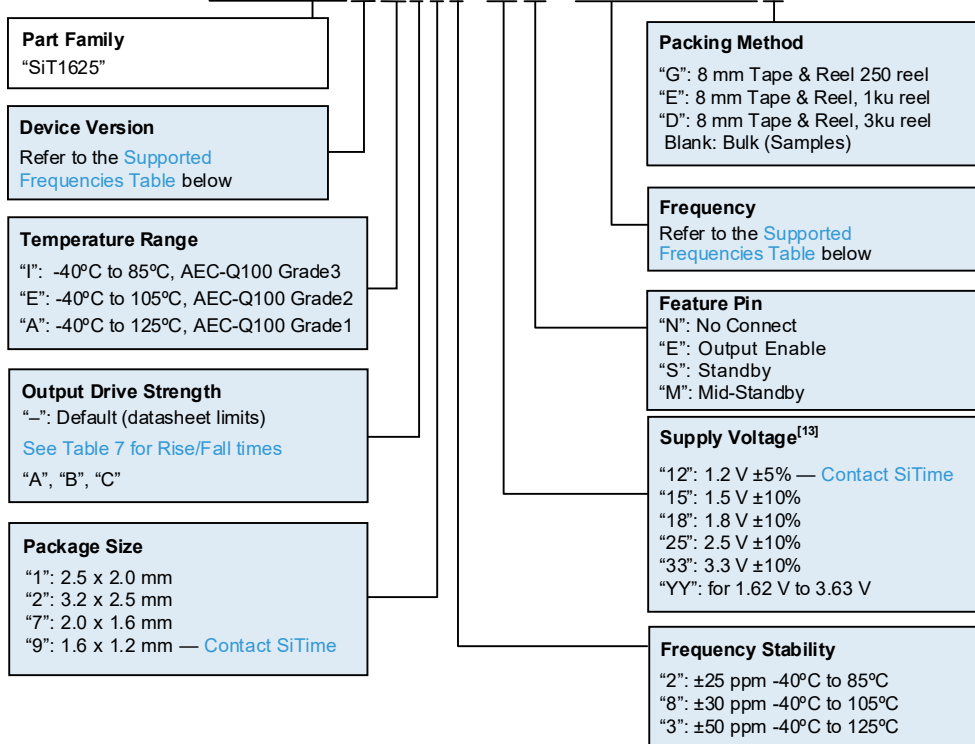
**Notes:**

11. Top marking: Y denotes manufacturing origin and XXXX denotes manufacturing lot number. The value of "Y" will depend on the assembly location of the device.
12. A capacitor of value 0.1 pF or higher between VDD and GND is required.

## Ordering Information

The part number guide illustrated below is for reference only, in which boxes identify order codes having more than one option. To customize and build an exact part number, use the SiTime [Part Number Generator](#). To validate the part number, use the SiTime [Part Number Decoder](#).

### SiT1625CA-13-18N-27.000000D



**Note:**

13. The voltage portion of the SiT1625 part number consists of a two-digit number that denotes the specific supply voltage of the device. Alternatively, "YY" can be used to indicate the entire operating voltage range from 1.62 V to 3.63 V.

**Table 8. Part Number and Supported Frequencies<sup>[14,15]</sup>**

		Frequency Range (MHz)					
SiT1625A		SiT1625B			SiT1625C		
5.000000	50.000000	4.000000	16.000000	32.000000	72.000000	7.000000	39.000000
10.000000	62.500000	4.096000	18.000000	32.768000	76.800000	13.000000	63.000000
20.000000	78.125000	6.000000	18.432000	36.000000	96.000000	21.000000	91.000000
25.000000	100.000000	8.000000	19.200000	38.400000	122.880000	27.000000	117.000000
31.250000	125.000000	8.192000	24.000000	48.000000	-	-	-
33.333333	-	9.000000	24.576000	61.440000	-	-	-
-	-	12.000000	30.720000	64.000000	-	-	-

**Notes:**

- 14. Any frequency the table above is supported with 6 decimal places of accuracy.
- 15. Please [contact SiTime](#) for frequencies that are not listed in the tables above.

**Table 9. Ordering Codes for Supported Tape & Reel Packing Method**

Device Size (mm <sup>2</sup> )	8 mm T&R (3ku)	8 mm T&R (1ku)	8 mm T&R (250u)
1.6 x 1.2	D	E	G
2.0 x 1.6	D	E	G
2.5 x 2.0	D	E	G
3.2 x 2.5	D	E	G

---

## **Instant Samples with Time Machine and Field Programmable Oscillator**

SiTime supports a field programmable version of the SiT1625 for fast prototyping and real time customization of features. The field programmable devices (FP devices) are available for all standard SiT1625 package sizes and can be configured to one's exact specification using the Time Machine II.

For more information regarding SiTime's field programmable solutions, see [Time Machine II](#) and [Field Programmable devices](#).

SiT1625 is typically factory-programmed per customer ordering codes for volume delivery.

## Additional Information

**Table 10. Additional Information**

Document	Description	Download Link
Time Machine II	Asterix programmer for engineering samples	<a href="https://www.sitime.com/time-machine-oscillator-and-active-resonator-programmer">https://www.sitime.com/time-machine-oscillator-and-active-resonator-programmer</a>
Field Programmable Oscillators	Devices that can be programmable in the field by Time Machine II	<a href="https://www.sitime.com/support/resource-library/datasheets/field-programmable-oscillators-and-active-resonators-datasheet">https://www.sitime.com/support/resource-library/datasheets/field-programmable-oscillators-and-active-resonators-datasheet</a>
Manufacturing Notes	Tape & Reel dimension, reflow profile and other manufacturing related info	<a href="https://www.sitime.com/sites/default/files/gated/Manufacturing-Notes-for-SiTime-Products.pdf">https://www.sitime.com/sites/default/files/gated/Manufacturing-Notes-for-SiTime-Products.pdf</a>
Qualification Reports	RoHS report, reliability reports, composition reports	<a href="http://www.sitime.com/support/quality-and-reliability">http://www.sitime.com/support/quality-and-reliability</a>
Performance Reports	Additional performance data such as phase noise, current consumption and jitter for selected frequencies	<a href="http://www.sitime.com/support/performance-measurement-report">http://www.sitime.com/support/performance-measurement-report</a>
Termination Techniques	Termination design recommendations	<a href="http://www.sitime.com/support/application-notes">http://www.sitime.com/support/application-notes</a>
Layout Techniques	Layout recommendations	<a href="http://www.sitime.com/support/application-notes">http://www.sitime.com/support/application-notes</a>

## Revision History

**Table 11. Revision History**

Version	Release Date	Change Summary
0.10	3-Feb-2022	Initial release
0.22	15-Aug-2022	General Updates
0.23	21-Sep-2022	Additional updates on typos
0.24	30-Oct-2022	Formatting updates
0.25	6-Nov-2022	Adjusted frequency and package options Updated jitter and phase noise specifications
0.26	11-Feb-2023	Added clarifying notes to jitter and phase noise specifications
0.50	11-Feb-2023	Updated Features and Applications, Electrical Characteristics, Pin Descriptions, Ordering Information
0.51	22-Feb-2023	Updated Electrical Characteristics
0.52	19-Apr-2023	Added 1612 package option
0.60	27-Jul-2023	Expanded Supported Frequencies, Updated Table 1 specs, Added Programmable Drive Strength Section, Reorganized Sections, Typo corrections, Updated Ordering Information, Updated ESD spec
0.70	23-Jan-2024	Electrical Characteristics, Features, Pinout Updated
0.90	15-Apr-2025	Electrical Characteristics Updated
1.00	18-Apr-2025	Production Release
1.01	27-May-2025	Updated Package Outline Drawings (cosmetic and font changes)
1.1	30-Oct-2025	Minor updates to Ordering Information for better readability
1.2	19-Nov-2025	Updated Output Drive Strength with A, B, C settings Added Table 7

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