
TROPIC01

OD_TR01_catalog_list

Catalog list

Version: 0.2

Abstract

This Document lists all delivered Part Numbers of TROPIC01 and their configuration.

September 8, 2025



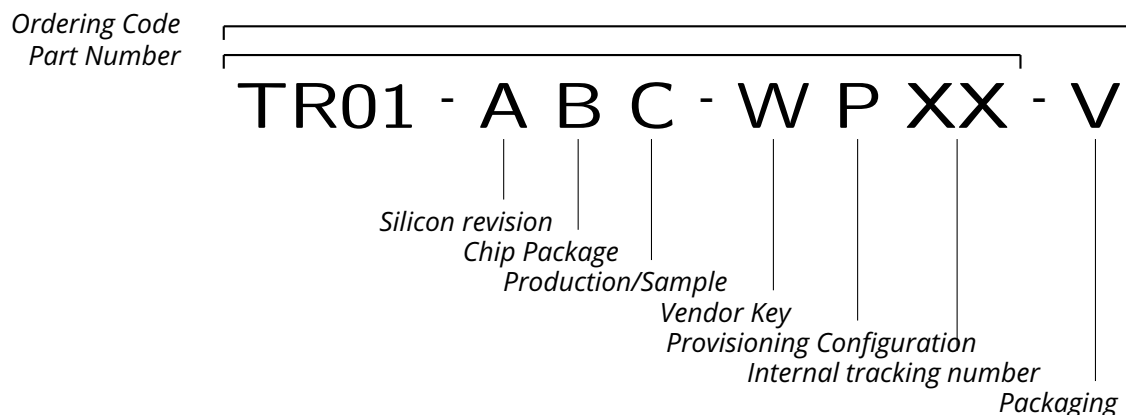


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1 Part Number



Label	Description
A	Silicon revision A - ABAA - Pre-production samples B - ABAB - Pre-production samples C - ACAB - Production devices
B	Chip Package 1 - No package, bare silicon die 2 - QFN32 (4x4mm, 32L T/SLP)
C	Production/Sample P - Production device S - Sample device
W	Vendor Key T - Tropic Square vendor key P - Tropic Square vendor key (legacy) E - Unspecified external vendor key X - Tropic Square development key U - No key or undefined key
P	Provisioning configuration 0 I/R Config are empty 1 Sensors are enabled in I-Config 2 Sensors are enabled in I-Config, MBIST is enabled 3 Sensors are enabled in I-Config, MBIST is enabled, FW logging is disabled.
XX	Internal Tracking Number Tropic Square Internal Tracking Number. Keep as "XX" when ordering.



Label	Description
V	Packaging A - 13" reel (330mm), MOQ 5000 units B - 7" reel (177.8mm), MOQ 1500 units C - reel strip, MOQ 100 units D - custom reel, MOQ 500 units T - tray, MOQ 490 units

1.1 Ordering details

Part Number scheme above captures all differences between TROPIC01 chips delivered. The two **XX** digits are used for internal tracking purposes and do not need to be tracked in the supply chain. Therefore, customers shall keep "X" as a character for these two digits when specifying order code of TROPIC01, e.g.:

TR01-C2P-T3XX-A

Silicon Rev. C (ACAB) - production, QFN32, Configuration as in 5.4, 5000 pcs reel.

TR01-C2P-T1XX-T

Silicon Rev. C (ACAB)- production, Bare die, Configuration as in 5.2, tray.



2 Available Part Numbers

Below is a list of Part Numbers that have been released.

Part Number	Ordering Code
TR01-B2S-T005	TR01-B2S-T0XX-V
TR01-C2P-T103	TR01-C2P-T1XX-V
TR01-C2P-T101	TR01-C2P-T1XX-V
TR01-C2P-T202	TR01-C2P-T2XX-V
TR01-C2P-T301	TR01-C2P-T3XX-V

Note

"V" shall be replaced to define type of chip packaging (reel, tray, etc..) as defined in 1.

Note

"XX" stands for wildcard character. It shall be kept as "XX".

Note

In addition to these Part Numbers, there exist pre-production samples that do not follow Part Number Scheme described above. Such devices are not supported.



3 Package Marking

See below sections to understand TROPIC01 package markings.

3.1 Marking Version 1

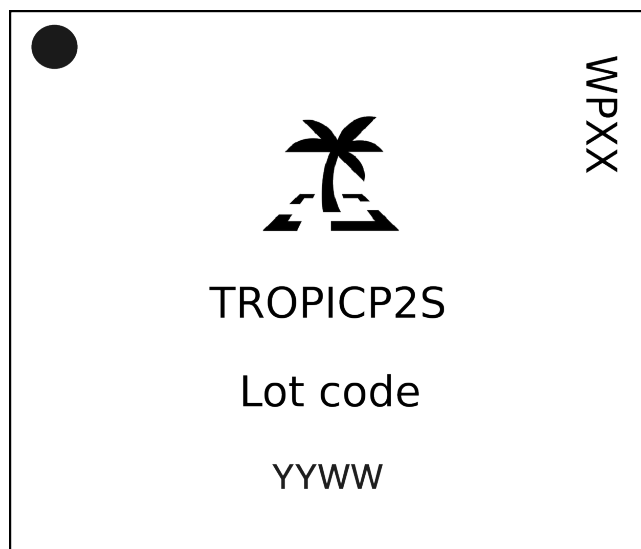


Figure 1: Package Marking Version 1

Item Name	Meaning
TROPICP2S	Product label
Lot code	Silicon manufacturer lot code
YY	Last two numbers of the year when the chip was packaged
WW	Week number within year when the chip was packaged, zero padded
W	Vendor Key indicator, see 1
P	Provisioning configuration, see 1
XX	Internal tracking code



3.2 Marking Version 2



Figure 2: Package Marking Version 2

Item Name	Meaning
TR01-C2	Prefix of Part Number (TR01-XY, see 1)
Lot code	Silicon manufacturer lot code
YY	Last two numbers of the year when the chip was packaged
WW	Week number within year when the chip was packaged, zero padded
W	Vendor Key indicator, see 1
P	Provisioning configuration, see 1
XX	Internal tracking code



4 Shipment Labeling

The shipments made by Tropic Square are labeled with the following sticker:



Item:	TROPIC01	 tropicsquare	
P/N:	TR01-C2P-T101-C	Date code:	2510
Marking:	TROPICP2S	MSL:	3
Package:	QFN32 4x4mm	RoHS 3 Compliant:	Yes
Qty:	185 pcs.		
Diffused in:	Singapore		
Prov. in:	Czech Rep.		
Made in:	Malaysia		
Lot code:	S64PQ.65		
Prod idn:	2025-05-09T11-00-29Z__prod_C2P_T101_provisioning__eps_ TR01-C2P-T101-Brno 20250513 132001.ppkg		

Figure 3: Package Sticker



5 Factory Configuration

This section provides the default configuration for each Part Number of TROPIC01 that Tropic Square programs to R/I-Config during manufacturing (Letter P in Part Number scheme). The table lists all CO Fields that are set to 0. The rest have the default value 1.



5.1 T0XX

R-Config	I-Config
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5.2 T1XX

R-Config	I-Config
CFG_SENSORS	
- CPB_BIT_FLIP_DIS	
- CPU_ALERT_DIS	
- ECC_BIT_FLIP_DIS	
- EKDB_BIT_FLIP_DIS	
- EM_PULSE_DET_DIS	
- GLITCH_DET_DIS	
- I_MEM_BIT_FLIP_DIS	
- LASER_DET_DIS	
- OSCILLATOR_MON_DIS	
- PIN_VERIF_BIT_FLIP_DIS	
- PLATFORM_BIT_FLIP_DIS	
- PTRNG0_TEST_DIS	
- PTRNG1_TEST_DIS	
- R_MEM_BIT_FLIP_DIS	
- SCB_BIT_FLIP_DIS	
- SHIELD_DIS	
- TEMP_SENS_DIS	
- VOLTAGE_MON_DIS	



5.3 T2XX

R-Config	I-Config
CFG_SENSORS	CFG_START_UP
- CPB_BIT_FLIP_DIS	- MBIST_DIS
- CPU_ALERT_DIS	- RNGTEST_DIS
- ECC_BIT_FLIP_DIS	
- EKDB_BIT_FLIP_DIS	
- EM_PULSE_DET_DIS	
- GLITCH_DET_DIS	
- I_MEM_BIT_FLIP_DIS	
- LASER_DET_DIS	
- OSCILLATOR_MON_DIS	
- PIN_VERIF_BIT_FLIP_DIS	
- PLATFORM_BIT_FLIP_DIS	
- PTRNG0_TEST_DIS	
- PTRNG1_TEST_DIS	
- R_MEM_BIT_FLIP_DIS	
- SCB_BIT_FLIP_DIS	
- SHIELD_DIS	
- TEMP_SENS_DIS	
- VOLTAGE_MON_DIS	



5.4 T3XX

R-Config	I-Config
CFG_SENSORS	CFG_DEBUG
- CPB_BIT_FLIP_DIS	- FW_LOG_EN
- CPU_ALERT_DIS	CFG_START_UP
- ECC_BIT_FLIP_DIS	- MBIST_DIS
- EKDB_BIT_FLIP_DIS	- RNGTEST_DIS
- EM_PULSE_DET_DIS	
- GLITCH_DET_DIS	
- I_MEM_BIT_FLIP_DIS	
- LASER_DET_DIS	
- OSCILLATOR_MON_DIS	
- PIN_VERIF_BIT_FLIP_DIS	
- PLATFORM_BIT_FLIP_DIS	
- PTRNG0_TEST_DIS	
- PTRNG1_TEST_DIS	
- R_MEM_BIT_FLIP_DIS	
- SCB_BIT_FLIP_DIS	
- SHIELD_DIS	
- TEMP_SENS_DIS	
- VOLTAGE_MON_DIS	



Version history

Version	Date	Description
0.1	5.9.2025	Initial version
0.2	8.9.2025	Split NUM into C and XX. Replace X Y Z by A B C.



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