

Pango Design Suite Release Notes

(version number : PDS_2022.2-rc3)

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Document version revision record

VERSION NUMBER	RELEASE DATE	REVISION HISTORY
PDS_2022.2- rc1	2022.11.14	First edition
PDS_2022.2- rc2	2022.12.02	Add features of rc2
PDS_2022.2- rc3	2022.12.19	Add features of rc3

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1. Software Introduction

Pango Design Suite for EDA suite, including linux and windows Both versions contain the following components or 17 separate modules:

- Pango Design Suite : FPGA Development Integration Tool, referred to as PDS ;
- Pango Design Suite Shell : FPGA Command integration tool, referred to as PDS SHELL ;
- Architecture-Driven Synthesis : logic synthesis tool, referred to as ADS ;
- Synplify Pro for Pango : third-party logic synthesis tool, referred to as OEM ;
- IP Compiler : IP module generation tool, referred to as IPC ;
- User Constraint Editor : User Constraint Tool, referred to as UCE ;
- Physical Constraint Editor : Physical Constraint Tool, referred to as PCE ;
- Route Constraint Editor : Routing Constraint Tool, referred to as RCE ;
- Design Editor : Placement and routing result viewing and adjustment tool, referred to as DE ;
- Timing Analyzer : Timing analysis tool, referred to as TA ;
- Pango Power Planner : Power consumption evaluation tool, referred to as PPP ;
- Pango power Calculator : Power consumption analysis tool, referred to as PPC ;
- Pango SSN Estimator : Simultaneous switching noise estimation tool, referred to as PNE ;
- Pango SSN Analyzer : Synchronous switching noise analysis tool, referred to as PNA ;
- Fabric Inserter : Inserting core tool, referred to as INS ;
- Fabric Configuration : chip configuration tool, referred to as CFG ;
- Fabric Debugger : online debugging tool, referred to as DBG ;

The kit uses PDS as a unified development platform, and other components can be seamlessly linked on it to support the whole process of FPGA development.

2. Supported platforms

Software tool	Windows operating system	Linux operating system
ADS comprehensive tools, PDS backend tools	Windows 7,10,11 , windows Server 2016 ;	CentOS7.4+,8+ , RHEL7.4+,8+ ;

3. Supported devices

1) TITAN Series Devices and Packages

DEVICE	PACKAGE	REMARK
PGT180H	FFBG1140	PDS_2019.4 supported
	FFBG1152	PDS_2019.4 supported

2) COMPACT Series Devices and Packages

DEVICE	PACKAGE	REMARK
PGC1KG	LPG100	PDS_2019.4 supported
	LPG144	PDS_2019.4 supported
	FBG256	PDS_2019.4 supported
	MBG256	PDS_2019.4 supported
PGC1KL	UWG36	PDS_2019.4 supported
PGC2KG	LPG100	PDS_2019.4 supported
	LPG144	PDS_2019.4 supported
	FBG256	PDS_2019.4 supported
	MBG256	PDS_2019.4 supported
PGC2KL	UWG49	PDS_2019.4 supported
	SSBG256	PDS_2019.4 supported
PGC4KD	LPG144	PDS_2019.4 supported
	FBG256	PDS_2019.4 supported
	MBG256	PDS_2019.4 supported
	MBG324	PDS_2019.4 supported
PGC4KL	UWG81	PDS_2019.4 supported
	SSBG256	PDS_2019.4 supported
PGC4KLS	SBG81	New in PDS_2020.4
PGC7KD	LPG144	PDS_2019.4 supported
	MBG256	PDS_2019.4 supported
	MBG400	PDS_2019.4 supported
	FBG484	PDS_2019.4 supported
PGC10KD	MBG484	New in PDS_2020.3

3) LOGOS Series Devices and Packages

DEVICE	PACKAGE	REMARK
PGL12G	LPG144	PDS_2019.4 supported
	FBG256	PDS_2019.4 supported
PGL22G	FBG256	PDS_2019.4 supported
	MBG324	PDS_2019.4 supported
PGL22GS	LPG176	PDS_2019.4 supported
PGL25G	FBG256	PDS_2019.4 supported
	MBG324	New in PDS_2020.1
	FBG484	PDS_2019.4 supported
PGL50H	FBG484	New in PDS_2020.3
PGL50G	MBG324	New in PDS_2020.3
	FBG484	New in PDS_2020.3
PGL100H	FBG900	New in PDS_2021.1

4) LOGOS2 Series Devices and Packages

DEVICE	PACKAGE	REMARK
PG2L100H	FBG676	New in PDS_2020.1
	MBG324	New in PDS_2020.1
	FBG484	New in PDS_2020.1
PG2L25H	MBG325	New in PDS_2021.3
PG2L50H	FBG484	New in PDS_2022.1
	MBG324	New in PDS_2022.1
PG2L200H	FBG484	New in PDS_2022.2
	FBG676	New in PDS_2022.2
	FFBG1156	New in PDS_2022.2

5) TITAN2 Series Devices and Packages

DEVICE	PACKAGE	REMARK
PG2T390H	FFBG676	New in PDS_2020.4
	FFBG900	New in PDS_2020.4

4. Version Features

1. rc1

- ✓ Added device PG2L200H (package: FFBG1156/FBB676/FBB484)
- ✓ Preliminary optimization of QoR

2. rc2

- ✓ Added Show Prim Symbol resource button in Device Browser of PCE and UCE interface

3. rc3

- ✓ Increased APM performance clock frequency from 150M to 160M for Logos2 family speed grade -5 devices
- ✓ Fix the problem that the PG2T390H pcie project board fails

5. Contacts

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