BST14288XL
Complex Programmable Logic Devices
Product Brochure

Product Overview

BST14288XL is a high-density, high-performance complex programmable logic device (CPLD) based on the "product term" principle, with 6400 available gates ; core power supply voltage is 3.3V, IO voltage is 3.3V/2.5V; 288 macro units, 288 registers; operating temperature range is -55℃～+125℃, Pin-to-Pin maximum delay time: 7.5ns (-55℃～+125℃), maximum system frequency is 150MHz; ESD protection is greater than or equal to 2000V. This type of chip is widely used in computer bus systems and industrial control, military, communications, office automation and other fields.

Product features

- In-system programmable.
- Quick connect switch matrix.
- 54 input function blocks.
- Each macrocell can have up to 90 product terms.
- The clock resources have 3 global clocks.
- Each output pin has an independent output enable.
- All user input pins have a bus-hold function.
- Supports hot swap.
- 288 macrocells, 6400 usable gates.
- Quickly programmable.
- Output slow slew rate control.
- High performance and high reliability.
- 10,000 program/erase cycles.
- 20 years data retention.

Functional Block Diagram

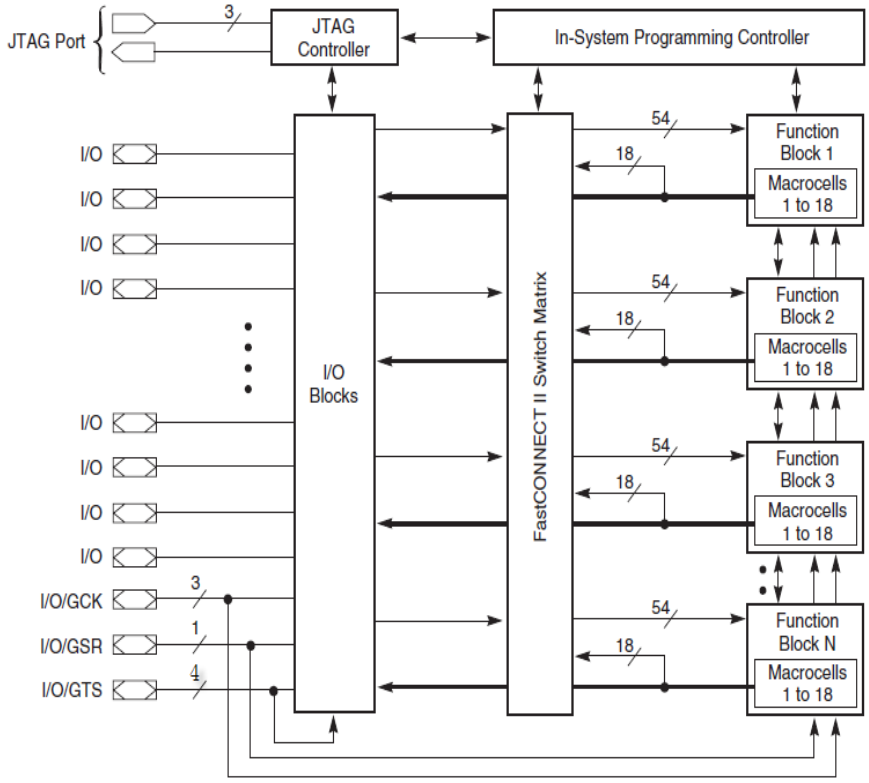

Figure 1 Product Function Block Diagram

Compatible models

Our product model	Replacement product models	Alternative Products Company	Alternative product country
BST14288XL	XC95288XL	Xilinx	USA

Ordering Information

Order Model	Encapsulation form	Available I O number	Encapsulation Material	Device level	Lead material	Weight (g)	Typical size (mm) (Length	Detailed specification number	Product Status

							× Width × Height)		
BST14288XL-10MCQFP208	CQFP208	168	ceramics	Class B	Gold plating		32.6× 32.6× 2.68	Q/BST 20234-2016	Mass production
BST14288XL-10MCQFP144	CQFP144	117	ceramics	Class B	Gold plating		23.05 × 23.05 ×2.55	Q/BST 20234-2016	Mass production
BST14288XL-10FG256M3	FBGA256	192	plastic	N1 Level	S AC305		17.0× 17.0× 2.1	Q/BST 50122-2022	Mass production
BST14288XL-10LQFP144M3	LQFP144	117	plastic	N1 Level	Tinning		22.2 ×22.2 ×1.6	Q/BST 50252-2022	Mass production
BST14288XL-10LQFP208M3	LQFP208	168	plastic	N1 Level	Tinning		30× 30× 1.6	Q/BST 50253-2022	Mass production

Note 1 :

- Q/B /B1 grade devices meet GJB 597 A -1996 or GJB 597B-2012 Screening requirements for Q/B /B1 levels of the General Specifications for Semiconductor Integrated Circuits .
- N /N1 level devices meet the N /N1 level screening requirements of GJB 7400 "General Specification for Semiconductor Integrated Circuits for Qualified Manufacturer Certification "

Note 2 :

The product ordering information is for our existing products or devices that have

been confirmed to be developed . We can develop devices in other packaging forms according to user needs.