

**Ethernet Switch on Configurable Logic** 

# ESoCL

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**Release Bulletin** 

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# Ethernet Switch on Configurable Logic

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#### 1. LATEST RELEASE

Version:	0x0001
Release:	0x0000

Manufacturer ID:	0x71022
Device ID:	0x001

Manufacturer ID and Device ID can be read from ESoCL register CTRL\_ID. Version and Release number can be read from ESoCL register CTRL\_VERSION.

#### Changes

#	Changes	Solved	Status
	Initial release of the ESoCL IP		

#### Change details

# - CHANGE	
Affected files	

#### Resources

Resources: 8 port ESoCL Target: EP3CLS100F484I7 (Altera Cyclone 3LS)							
Units	Logic cells	Memory bits	Fmax				
Generic	1217	8192 bits					
(Arbiters, Control)		1 M9K Block					
RGMII Port	5904	337328 bits					
(MAC, MAL, Storage, Processing)		51 M9K Blocks	CLK_CTRL ≤ 50MHz CLK DATA ≤ 140MHz				
Search engine	945	582400 bits	$CLK_DATA \leq 140MHz$ $CLK SEARCH \leq 100MHz$				
		72 M9K Blocks	CLK_SEARCH S 1001VIHZ				
Total	49394	337328 bits					
		481 M9K Blocks					

#### Tools

- Altera Quartus II 10.1
- Modelsim AE 6.6d



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## 2. PREVIOUS RELEASES