

NG medium



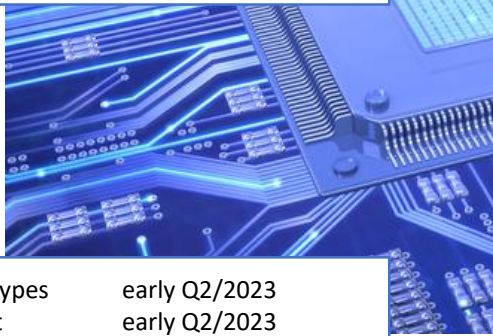
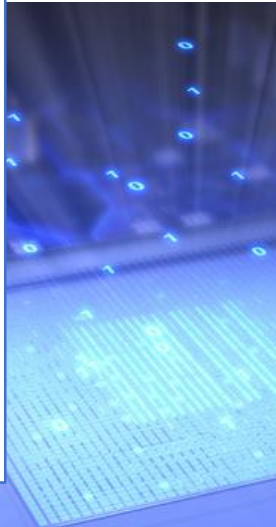
We are proud to announce NanoXplore 65nm NG-MEDIUM FPGA ESCC QPL certification. This is an extremely important milestone for European space products. NG-MEDIUM is the first European FPGA to reach this maturity stage. We expect to obtain similar qualifications for our upcoming new generation 28nm FDSOI technology product family in the near future.

NG ultra

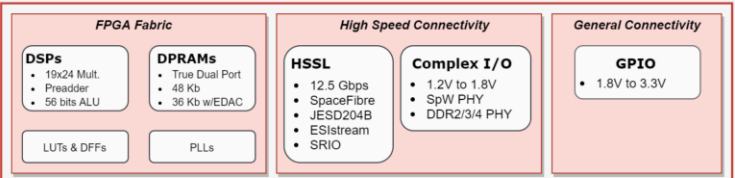
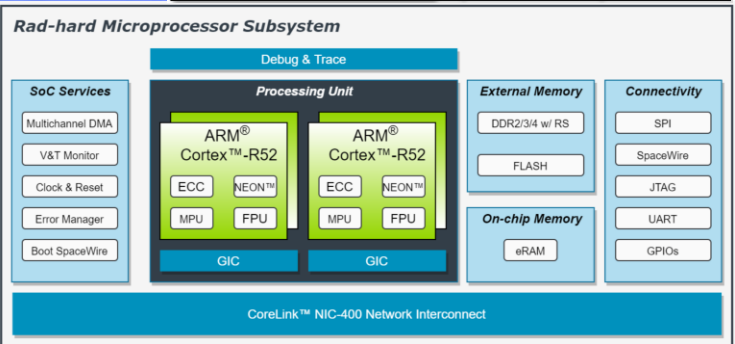
New released NX Impulse Design Suite

A proprietary design suite developed by NanoXplore to support its entire Radiation Hardened FPGA portfolio.

Impulse offers a complete compile design flow which transforms user HDL RTL code into a bitstream for dedicated NX devices through *Synthesise*, *Place* and *Route* software steps. It includes its own synthesis and static timing analysis tool.



Device	Details	NX2H540TSC
Capacity		
ASIC Gates		8 000 000
Logic Modules		
Register	16x Tiles + 8CGBs	505 344
LUT-4	384DFF on 16rows	536 928
Carry	408LUT on 16rows	126 336
	96CY on 16rows	33Mb
Embedded RAM		
DPRAM	672RAM * 48Kb	32.256K
Core Register File	672RF * 2*2	2 688
Core Register File Bits	2688*32*18bits	1 512K Hardened
Clocks / PLL		50 / 7
Additional Features		
SpaceWire PHY (8 IOBs)	2x/Complex IOBank	20
DDR3/4 PHY (11IOBs)	2x/Complex IOBank	20
DSP Blocks	From 8 rows	1344
SpaceWire link I/F 430Mbps	CODEC	1
SERDES Tx/Rx 12.5Gbps	8 Quad x 4 SERDES	32
Hard IP Processor core	ARM Cortex-R52	4
SoC Peripherals	DALHIA	YES
Design Security		YES
Inputs / Outputs		-
Complex I/O bank	VIO 1.2 – 1.5 – 1.8V	10x 34 IOs
Simple I/O bank	VIO 1.8 – 2.5 – 3.3V	4x 24 IOs
Packages - User I/Os		740 I/Os
LF1752 & CF1752	45*45mm / 1mm	436 + SoC 304
FF1760	45*45mm / 1mm	436 + SoC 304

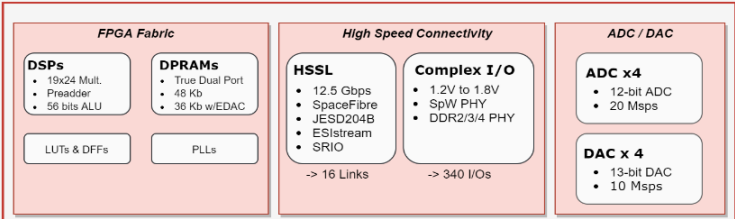


Rad-hard Programmable Logic

Prototypes early Q2/2023
 EvalKit early Q2/2023
 ESCC9000P equivalent FM Q4/2023
 ESA Qual to be completed end of Q2/2024

NG ultra 300

Prototypes Q1/2024



Rad-hard Programmable Logic