Partner Board Qualifications (Lattice Semiconductor)

Ricoh parts are officially registered in reference design of Lattice FPGA system.
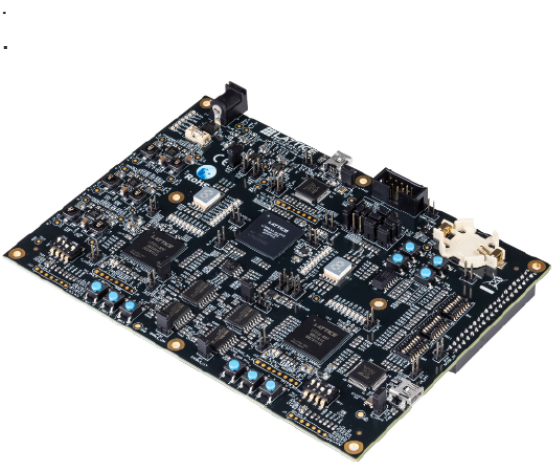

MachXO3D

Secure FPGA Enabling Hardware Root-of-Trust

Enhance Secure Control Applications with Hardware Root-of-Trust and Dual Boot Capabilities

Lattice Sentry Demo Board for MachXO3D

The Lattice Sentry Demo Board for MachXO3D User Guide with Ricoh parts can be found **HERE**.
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MachXO3D adds an immutable embedded security block, enhanced control functions, expanded user flash memory up to 2700 kbits, and available in Commercial, Industrial and AEC-Q100 qualified Automotive grade.

Highly Secured FPGA – Immutable security enables Hardware Root-of-Trust and pre-verified cryptographic functions.
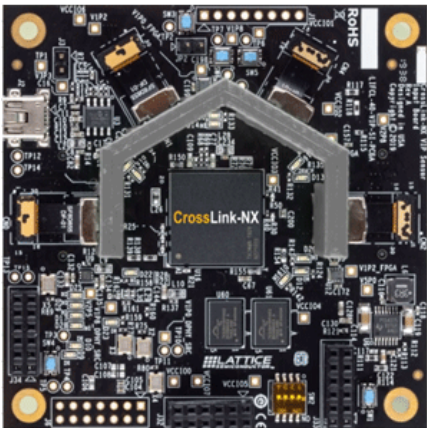
RICOH products

RP132 Series	RP132H181D-T1-FE
	RP132H251D-T1-FE
	RP132H331D-T1-FE
R2025 Series	R2025S-E2-FE

Embedded Vision and Processing FPGA

CrossLink-NX provides Industry's fastest MIPI D-PHY bridging solution supporting 4K UHD resolution at speeds up to 12Gbps and also supports LVDS, SLVS, subLVDS, and OpenLDI (OLDI).

High Speed Interfaces - Up to 75% lower power vs similar FPGAs and small form factor packaging with sizes as small as 4mm x 4mm. High memory to logic cell ratio, up to 170 bits per logic cell, accelerates AI inferencing.

RICOH products

RP115 Series	RP115H121D-T1-FE
	RP115H101D-T1-FE
	RP115H181D-T1-FE
RP111 Series	RP111H281D-T1-FE
	RP111H181D-T1-FE
	RP111H101D5-T1-FE
	RP111H111D-T1-FE
	RP111H251D-T1-FE
	RP111H101D-T1-FE