











## <section-header><image><image><text><text><text><text>







- Performance
- Energy consumption
- Cost
- Architectural features (for active vision)













	RISC : 1PE	Xetal-II SIMD :	Pentium4
	50MHz	320PE@150MHz	2.4GHz
Peak	0.05	100	6
Performance	GOPS	GOPS	GOPS
Size	6.4	44.4 (0.18u)	131
	mm <sup>2</sup>	11.1 (0.09u) mm <sup>2</sup>	mm <sup>2</sup>
Performance	0.008 GOPS/mm <sup>2</sup>	2.25	0.045
/area 0.18u		GOPS/mm <sup>2</sup>	GOPS/mm <sup>2</sup>
Overhead	26%	12%	??%
Bandwidth	2 Gb/S	1.5Tb/S	58 Gb/S
Peak Power		1.0	59































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## Outline

- I. Introduction
- II. Smart Camera Architectures
  - 1. Wireless Smart Camera
  - 2. Smart Camera for Active Vision
- III. Distributed Vision Algorithms
  - 1. Fusion Mechanisms
  - 2. Vision Network Algorithms
- IV. Requirements and Case Studies

Distribute of Missian Days

V. Outlook