



Детектор InGaAs XLIN-1.7-3000-TEO
в промышленном исполнении
ASY-008087

Описание архитектуры

XLIN-1.7-3000-TE0

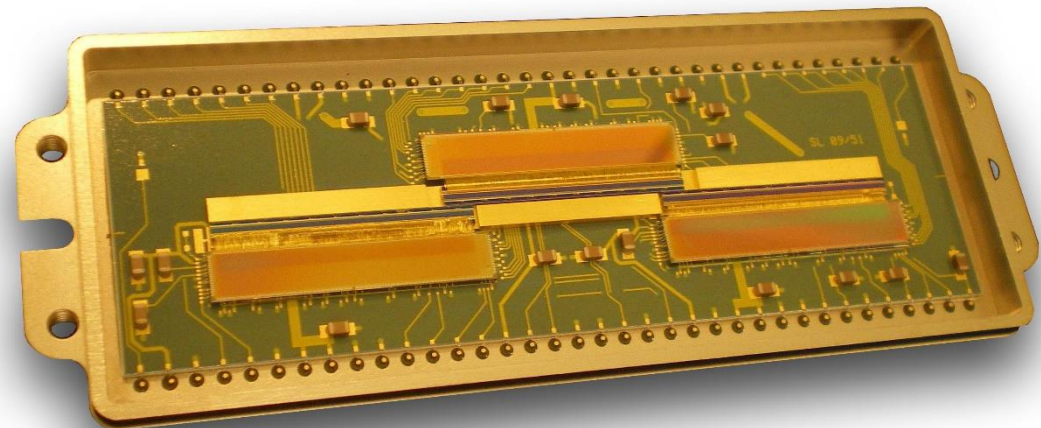
1024

InGaAs,

25 m.

25

(ROIC) 1024



Электрические характеристики

, / Power supply voltage [V]		3.1	3.3	3.5	
, / Total Power consumption [W]				1.5	
, / Analog output swing [V]			1.25	1.5	
/ Differential output swing [V _{ptp}]			2.6		
, / Common mode out voltage [V]			1.5		
Analog output load /			: > 750 k : <15 pF		
, / Input Logic [V]				0.6	
		2.7			

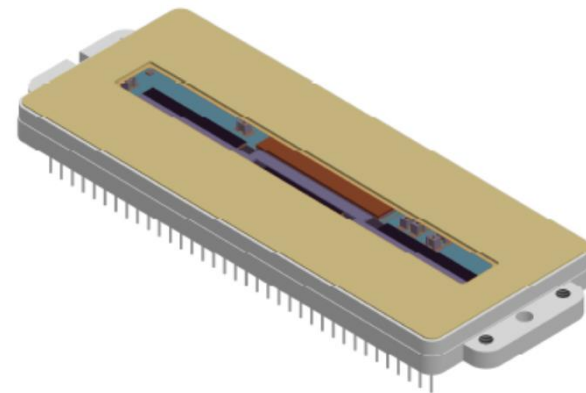
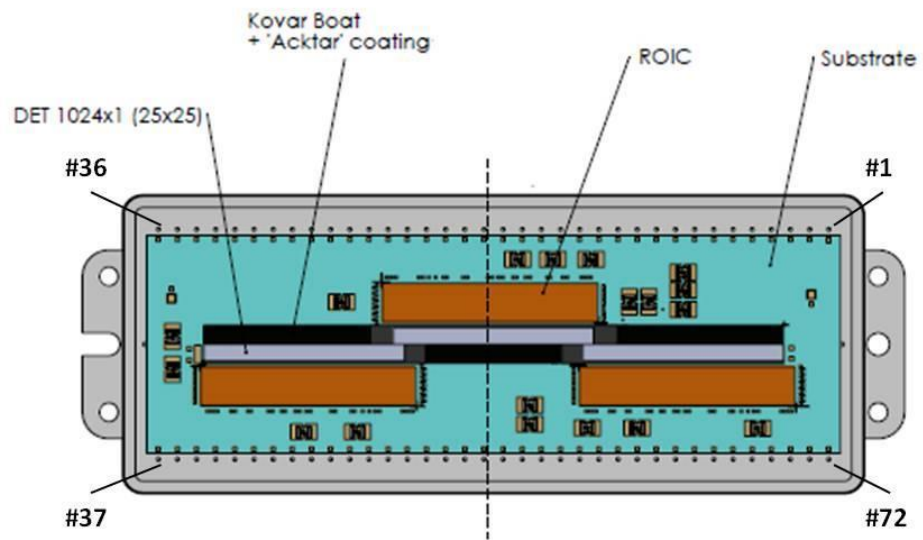
Электро-оптические характеристики

Array format [pxl]	3x1024	
/ Pixel pitch [μm]	25	/ Square
/ Wavelength range [μm]	0,9 . 1,7	
Integration capacitor [fF]	5 . 830	/ Selectable
Quantum efficiency (QE)	80%	
Sensitivity [e^- / μm^2]	32 . 0,19	/ Depending on selected integration capacitor
[e^-]	75,8K . 13,6M	/ Depending on selected integration capacitor
/ Non linearity	<1% of full scale	Maximum deviation from fitted straight line between 10% and 90% of response curve
/ Dark Signal (DS) [e^-]	<1	At $T_{\text{detector}}=25\text{ }^\circ\text{C}$
Fixed Pattern Noise (FPN)	High gain: 4% of full scale Low gain: 3% of full scale	
Dark Signal Temp dependency	Doubles every 8°C	
/ Noise [e^-]	1,12k . 4,66k	/ Depending on selected integration capacitor
Number of defect pixels	<1%	Of total number of pixels

ФУНКЦИИ

() / Pixel Rate (max)	3 x 12.5	/ MHz
#outputs	3	
() / Line Rate (max)	10	/ KHz
Integration Time	10 . 1	
Read Direction	/ Normal/Reverse	
Operating Modes	Integrate-While-Read / Integrate-Then-Read /	
Line Overhead (Dead Time)	<5% / <5% of readout time	
/ Sequencer	/ External	
/ A- to-D conversion	/ External	

Устройство



Перечень поставки

” XLIN-1.7-3000-TE0 ICD

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NI PXI

- National Instruments PXI system

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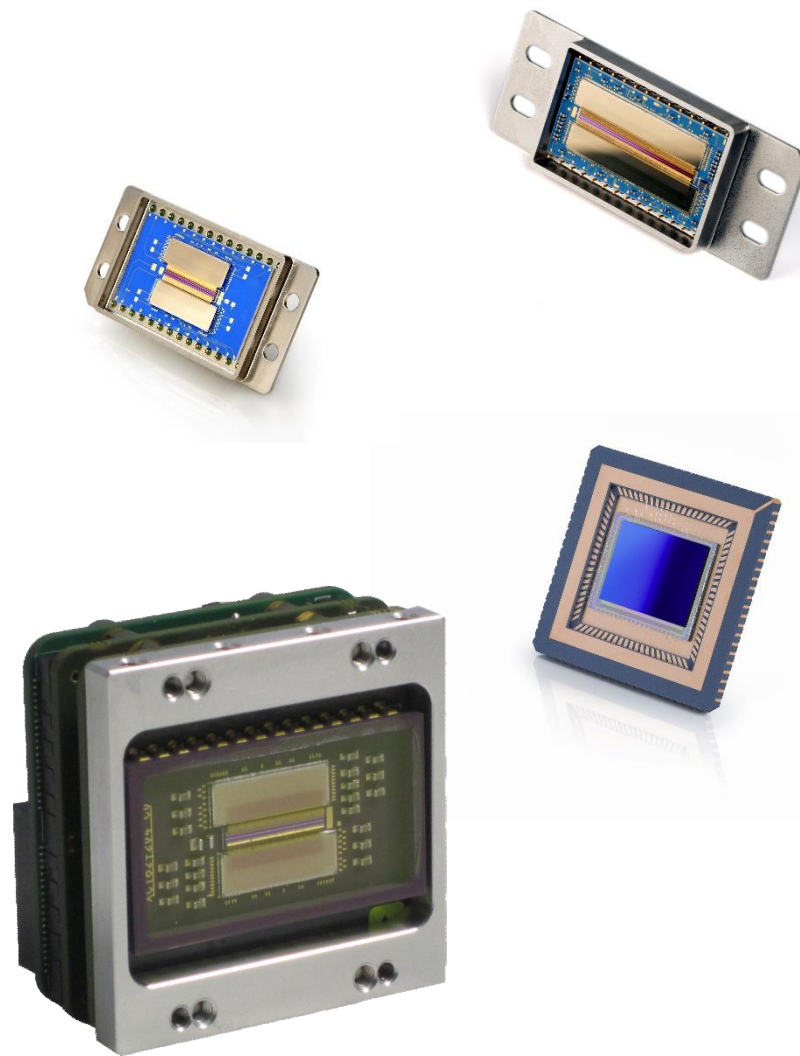
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Детекторы и модули InGaAs

XEN-000437	XSL-512R-25um-16bitDV
XEN-000436	XSL-512R-25um-GigE
XEN-000435	XSL-512R-25um-CL
XEN-000440	XSL-1024R-12.5um-16bitDV
XEN-000439	XSL-1024R-12.5um-GigE
XEN-000438	XSL-1024R-12.5um-CL
XEN-000443	XSL-2048R-12.5um-16bitDV
XEN-000442	XSL-2048R-12.5um-GigE
XEN-000441	XSL-2048R-12.5um-CL
XEN-000145	XSL-512-25um-16bitDV
XEN-000397	XSL-512-25um-GigE
XEN-000393	XSL-512-25um-CL
XEN-000392	XSL-1024-12.5um-16bitDV
XEN-000398	XSL-1024-12.5um-GigE
XEN-000395	XSL-1024-12.5um-CL
XEN-000394	XSL-2048-12.5um-16bitDV
XEN-000399	XSL-2048-12.5um-GigE
XEN-000396	XSL-2048-12.5um-CL
ASY-008083	XFPA 0.9-1.7 640 LN2 packaged sensor
ASY-008054	XLIN 0.9-1.7 512R TE0 packaged sensor
ASY-008057	XLIN 0.9-1.7 1024R TE0 packaged sensor
ASY-008058	XLIN 0.9-1.7 2048R TE0 packaged sensor
ASY-008055	XLIN 0.9-1.7 512SQ TE0 packaged sensor
ASY-008056	XLIN 0.9-1.7 1024SQ TE0 packaged sensor
ASY-008059	XLIN 0.9-1.7 2048SQ TE0 packaged sensor
ASY-008087	XLIN 0.9-1.7 3000SQ TE0 packaged sensor
ASY-000209	XLIN 0.9-1.7 512R TE1 packaged sensor
ASY-000210	XLIN 0.9-1.7 1024R TE1 packaged sensor
ASY-000211	XLIN 0.9-1.7 2048R TE1 packaged sensor
ASY-000207	XLIN 0.9-1.7 512SQ TE1 packaged sensor
ASY-008033	XLIN 0.9-1.7 1024SQ TE1 packaged sensor
ASY-000208	XLIN 0.9-1.7 2048SQ TE1 packaged sensor

XLIN-1.7-3000-TE0



Контакты



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