

NEWSPACE MARKET · COMPANY PROFILE



Teledyne e2v

United Kingdom · founded 1947 · teledyne-e2v.com

14

PRODUCTS

8

WITH DATASHEETS

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as of 20 August 2026

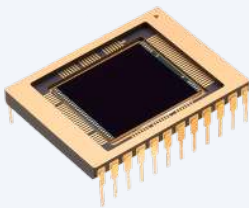


Teledyne e2v

Teledyne e2v is a leading developer of radiation-tolerant and radiation-hardened semiconductor and imaging devices for space, defense, and scientific instrumentation applications. Based in Chelmsford, Essex, UK, the company was founded in 1947 as English Electric Valve Company (e2v) and acquired by Teledyne Technologies in 2017. The company operates two major space product divisions: Imaging, which produces CCD and CMOS image sensors for astronomy, Earth observation, and satellite star trackers; and Semiconductors, which produces radiation-hardened processors, ADCs, DACs, and memory devices for satellite on-board computers and payloads. Both divisions serve ESA, NASA, and the global commercial satellite market. Teledyne e2v's CCD sensors have been selected for iconic science missions including the Herschel Space Observatory, Gaia astrometry satellite, Cheops exoplanet telescope, and Euclid survey telescope. Their semiconductor products — including the Mongoose-V MIPS-compatible processor, the QorIQ-based space processor family, and the Quadraxis quad-core LEON5 processor — power on-board computers and payload data processors across hundreds of satellite missions. The company operates a European space components qualification programme and provides radiation test reports and flight heritage documentation to support system-level radiation assurance in satellite programmes.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

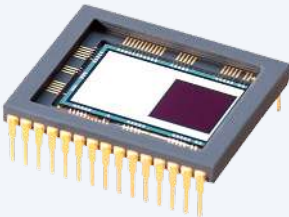
Product catalogue



TELEDYNE E2V	
CCD47-10 – Low-Noise Back-Illuminated CCD for Fine Guidance and Star Trackers	
1024×1024 back-illuminated CCD with very low readout noise for fine guidance sensors, star trackers, and precision wavefront sensing in space instruments.	
Format	1024 × 1024 pixels
Pixel Size	13 × 13 μm
Architecture	Back-illuminated
Applications	Fine guidance sensors, star trackers, wavefront sensing
QE	High in blue/UV to NIR
Flight Heritage	Multiple ESA/NASA precision pointing missions

price on request

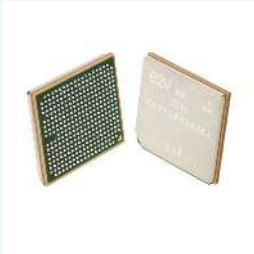
datasheet



TELEDYNE E2V	
CCD97	
The CCD97 is a frame transfer, electron multiplying CCD sensor designed for high frame rate, ultra-low light applications, featuring high quantum efficiency through Teledyne e2v's	
Active pixels	512 × 512
Pixel size	16 μm square
Sensitivity	Single photon sensitive
Gain	Variable multiplicative gain, 1x-1000x
Additional output	Additional conventional output amplifier
Architecture	Frame Transfer
Dark current	Inverted mode operation for low dark current

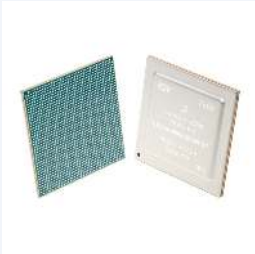
price on request

datasheet



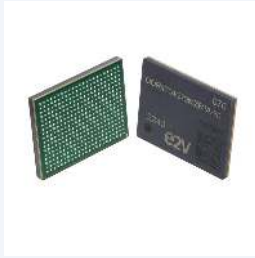
TELEDYNE E2V	
EV10AS940 – 10-bit 2.5 GSPS Radiation-Tolerant ADC	
10-bit 2.5 GSPS radiation-tolerant analog-to-digital converter for space radar, ELINT, and software-defined radio payloads. TID tolerance up to 100 krad(Si).	
Resolution	10 bits
Sample Rate	2.5 GSPS
TID Tolerance	100 krad(Si)
Output Interface	LVDS serial with demux
Applications	SAR, ELINT, COMINT, SDR payload

price on request



TELEDYNE E2V	
LX2160A Radiation-Tolerant Network-on-Chip Processor for Space	
NXP LX2160A-based radiation-tolerant 16-core ARM Cortex-A72 processor for high-performance satellite on-board computing, networking, and AI payload processing.	
Architecture	16× ARM Cortex-A72 cores
Clock Speed	Up to 2 GHz
Memory Interface	DDR4
High-Speed Interfaces	100G Ethernet, PCIe Gen3, USB
Applications	OBC, payload data processing, AI inference

price on request



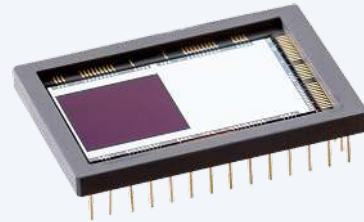
TELEDYNE E2V

Space Radiation-Tolerant DDR4 Memory

Space-grade radiation-tolerant DDR4 SDRAM with SEL immunity and TID tolerance for satellite on-board data handling, AI inference, and payload processing applications.

Type	DDR4 SDRAM
Qualification	Space radiation-tolerant
SEL Immunity	High LET ($>60 \text{ MeV} \cdot \text{cm}^2/\text{mg}$)
Applications	On-board computer, AI inference, image processing
Validation	Proton and heavy-ion testing with radiation reports

[price on request](#)



TELEDYNE E2V

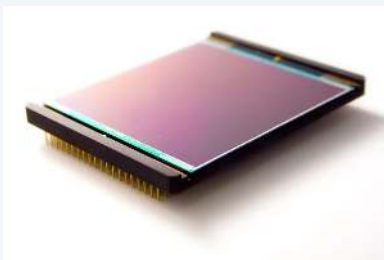
Teledyne e2v CCD201-20 Electron Multiplying CCD (EMCCD)

Frame-transfer electron multiplying CCD (EMCCD) designed for extreme performance in high frame rate, ultra-low light applications, with single-photon sensitivity and variable multi

Active pixels	1024 x 1024
Pixel size	13 μm square
Sensitivity	Single photon sensitive
Gain	Variable multiplication gain, 1x-1000x
Additional output	Additional conventional output amplifier (OSH)
Architecture	Frame Transfer
Dark current	Inverted mode operation for low dark current

[price on request](#)

[datasheet](#)



TELEDYNE E2V

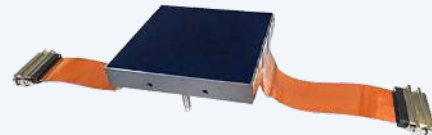
Teledyne e2v CCD230-84 16MP BSI CCD Sensor

A large area 16MP Back-Illuminated CCD sensor designed for high speed and low dark current applications such as X-Ray imaging, astronomy, and scientific imaging.

Active Pixels	4096(H) x 4112(V)
Pixel Size	15 x 15 μm
Image Area	61.4 x 61.4 mm
Number of output amplifiers	4
Package size	63.80 x 79.60 mm
Package format	Aluminium Oxide PGA
Connectors	80-pin PGA

[price on request](#)

[datasheet](#)



TELEDYNE E2V

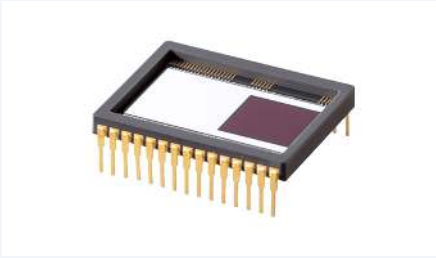
Teledyne e2v CCD290-99 Large-Area Back-Illuminated Scientific CCD

Large-area, back-illuminated scientific CCD image sensor for demanding astronomical and scientific imaging applications, with very low read-out noise for exceptional sensitivity.

Number of pixels	9216 (H) x 9232 (V)
Pixel size	10 μm square
Image area	92.2 mm x 92.4 mm
Outputs	16
Package size	98.5 x 93.7 mm
Package format	Silicon carbide with two flexi connectors
Focal plane height, above base	20.0 mm

[price on request](#)

[datasheet](#)



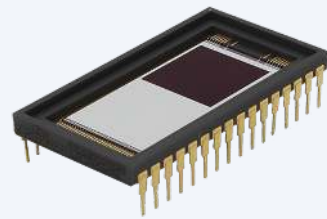
TELEDYNE E2V

Teledyne e2v CCD351-00 L3Vision Electron Multiplying CCD

Frame-transfer L3Vision electron multiplying CCD sensor designed for extreme performance in high frame rate, ultra-low light applications, with variable multiplication gain up to 3

Active pixels	1024 x 1024
Pixel size	10 μ m square
Gain	Variable multiplication gain, 1x-1000x+
Frame rate	Up to 30 fps
Dark current	Inverted mode operation for low dark current
Package	30-pin ceramic dual-in-line package

[price on request](#) [datasheet](#)



TELEDYNE E2V

Teledyne e2v CCD47-20 Frame-Transfer Scientific CCD

Frame-transfer CCD sensor with extremely low noise amplifiers, made with Teledyne Space Imaging's Advanced Inverted Mode process for minimal dark current, suited to demanding scien

Image format	1024 by 1024 (1:1)
Image area	13.3 x 13.3 mm
Illumination	Front or back illuminated format
Architecture	Frame transfer operation
Pixel size	13 μ m square
Gate protection	Symmetrical anti-static gate protection
Output amplifiers	Very low noise output amplifiers

[price on request](#) [datasheet](#)



TELEDYNE E2V

Teledyne e2v Space Data Converters

Teledyne e2v offers a comprehensive portfolio of radiation-tolerant and space-qualified analog-to-digital converters (ADCs) and digital-to-analog converters (DACs) for satellite an

ADC Resolution Range	8 – 16 bits
ADC Sample Rate Range	Up to 6 GSPS
Radiation Tolerance	TID, SEU, SEL characterized
Packages	Hermetic ceramic
Assurance	Per-lot radiation test reports

[price on request](#)

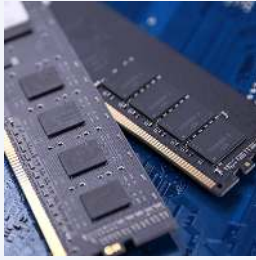


TELEDYNE E2V

Teledyne e2v Space Imaging Detectors — CCDs and HgCdTe Infrared Sensors for Astronomy

Teledyne Technologies is a US industrial conglomerate whose Teledyne e2v and Teledyne Scientific & Imaging divisions supply precision imaging detectors for space telescopes and

[price on request](#) [datasheet](#)



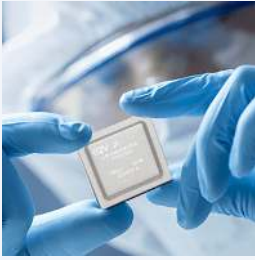
TELEDYNE E2V

Teledyne e2v Space Memory Products

Space-qualified SRAM, DDR4 SDRAM, Flash, and MRAM memory products for satellite data storage and on-board computing with radiation tolerance and SEL immunity.

Memory Types	SRAM, DDR4, Flash, MRAM
Applications	Program storage, data buffering, OBC working memory
Radiation	TID, SEU, SEL characterized
Non-Volatile	Flash and MRAM options
Packages	Hermetic ceramic

price on request



TELEDYNE E2V

Teledyne e2v Space Processors

Teledyne e2v offers a broad portfolio of radiation-tolerant and radiation-hardened processors for satellite on-board computing, ranging from small low-power CubeSat flight computer

Architectures	ARM Cortex-A, PowerPC, MIPS
Applications	CubeSat OBC to GEO/deep-space computing
Radiation	TID and SEL characterized, lot test reports
Support	Application notes and engineering support

price on request

Contact Teledyne e2v

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

<https://newspacemarket.com/companies/teledyne-e2v/>

<https://www.teledyne-e2v.com>