



## Micrograph Library

I am introducing total 25 die micrographs I made.

When zooming die micrograph using a smart phone or tablet, you possibly experience limited maximum available zoom factor (up to 2x), slow zooming speed, and sometimes freeze because of the factors such as slow CPU, insufficient main memory capacity, and simplified PDF viewer installed.

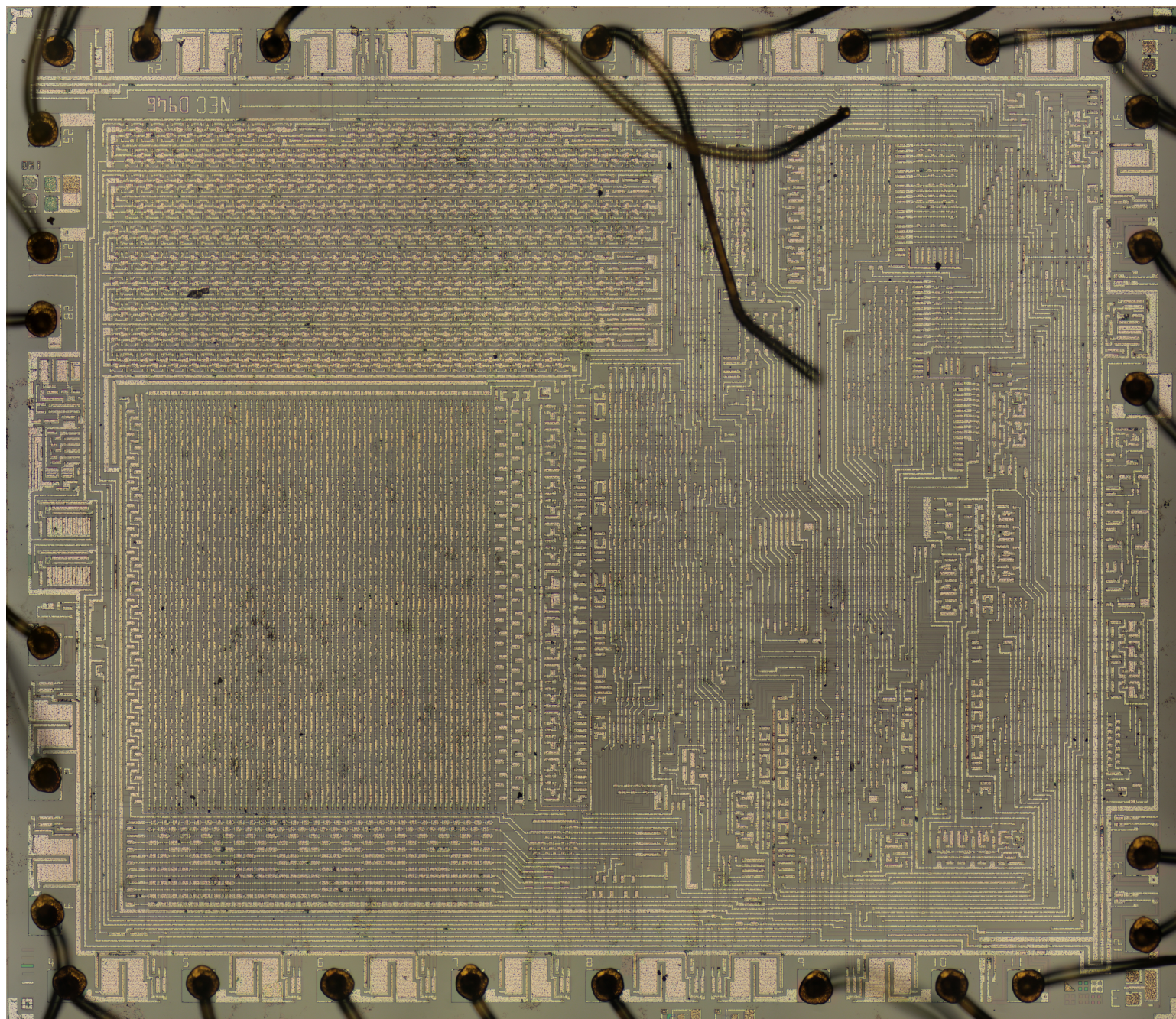
I recommend using a desk-top PC with large monitor TV (40"), fast CPU (i7), big capacity of main memory (32/16 GB), and fast GPU (8 GB) if possible.

Design company	Manufacturing company	Product name	Function
NEC		<a href="#">μPD282D</a>	12 Digit Desk-top Calculator (ALU, Registers, etc. ) <Tetsuji Oguchi>
		<a href="#">μPD941C</a>	Single-chip 8 Digit 0 memory Desk-top Calculator <Tetsuji Oguchi>
		<a href="#">μPD946C</a>	Single-chip 8 Digit 1 memory Desk-top Calculator
		<a href="#">μPD1201C</a>	Single-chip 12 Digit 1 memory Desk-top Calculator with Printer Control <Tetsuji Oguchi>
		<a href="#">μPD777D</a>	Single-chip Television Game Processor <Tetsuji Oguchi & Toshio Oura>
		<a href="#">μPD777C</a>	
		<a href="#">μPD7220AD</a>	Graphics Display Controller (GDC) <Tetsuji Oguchi>
NEC	Intel	<a href="#">iD82720</a>	Graphics Display Controller (GDC) - License manufacturing (Second source) of μPD7220
NEC		<a href="#">μPD72120L</a>	Advanced Graphics Display Controller (AGDC) <Tetsuji Oguchi, et al.>
		<a href="#">μPD765C</a>	Floppy Disk Controller {NEC Fuchu Peripheral Equipment Division}
		<a href="#">μPD7720AD</a>	Signal Processor {NEC Central Research}
		<a href="#">μPD277</a>	Single-chip 8 Digit 1 memory Desk-top Calculator <Toshio Oura>
Casio	NEC	<a href="#">μPD977</a>	Single-chip 8 Digit 1 memory Desk-top Calculator
		<a href="#">μPD871B</a>	Digital watch
		<a href="#">μPD873G</a>	
Intel		<a href="#">8080A</a>	8 bit Microprocessor
		<a href="#">8085A</a>	
		<a href="#">iD8086</a>	16 bit Microprocessor
Intel	NEC	<a href="#">μPD8086D</a>	16 bit Microprocessor - Reverse engineering of iD8086
	Oki	<a href="#">80C86A</a>	16 bit Microprocessor - License manufacturing (Second source) of iD8086
Zilog		<a href="#">84C00</a>	8 bit Microprocessor (Z80)
Nintendo	Ricoh	<a href="#">RP2C02</a>	Television Game Processor (Family Computer with RP2A03)
Motorola	Ricoh	<a href="#">RP2A03</a>	8 bit Microprocessor - Reverse engineering of Motorola 6800
	Motorola	<a href="#">68000</a>	16 bit Microprocessor (Apple Macintosh)
TI		<a href="#">TMS9918A</a>	Television Game Processor (Multiple chips)

{ }; Architectural design by

<>; Architectural & Logic design by





μPD946C 20x Die Photo 17500 x 15165 (265 MP) 6400% (64x) Tolerant Synthesized by Hugin