10 1b	21 2b	32 3b	43 4b	54 5b	65 6b	76 7b
9 1a	20 2a	31 3a	42 4a	53 5a	64 6a	75 7a
8 19	19 29	30 39	41 49	52 59	63 69	74 79
7 18	18 28	29 38	40 48	51 58	62 68	73 78
6 17	17 27	28 37	39 47	50 57	61 67	72 77
5 16	16 26	27 36	38 46	49 56	60 66	71 76
4 15	15 25	26 35	37 45	48 55	59 65	70 75
3 14	14 24	25 34	36 44	47 54	58 64	69 74
2 13	13 23	24 33	35 43	46 53	57 63	68 73
1 12	12 22	23 32	34 42	45 52	56 62	67 72
0 11	11 21	22 31	33 41	44 51	55 61	66 71
Stack# vs. Coordinate (18 MP x 77 (7 x 11) Sectional Photos)						

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

{}; Architectural design by
<>; Architectural & Logic design by
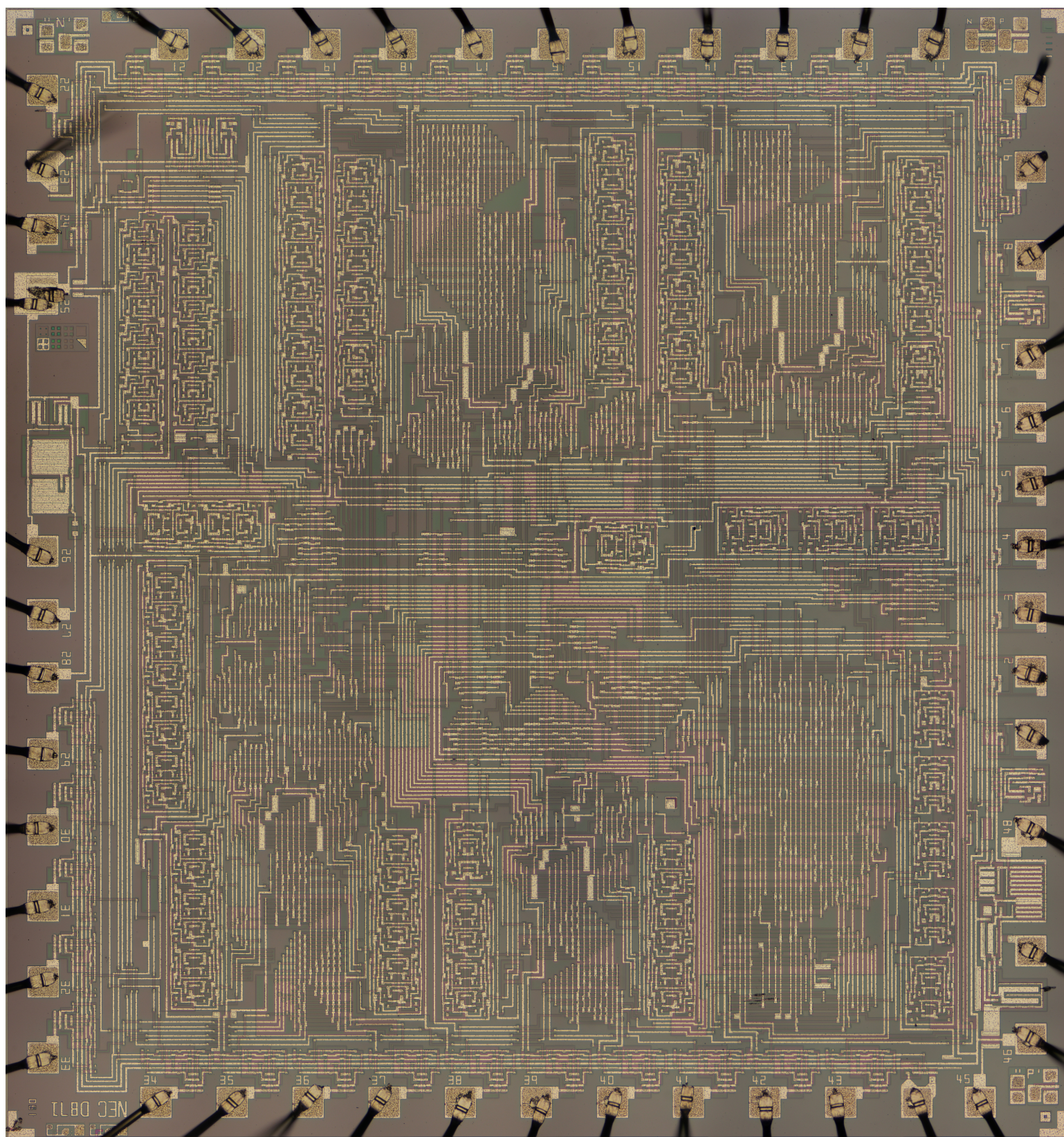
μPD871B 20x Die Photo 16900 x 18000 (304 MP) 6400% (64x) Tolerant Synthesized by Hugin