

Pin association of next page die photo exactly reflects the die position mounted on the island of the base ribbon.

14 1f	29 2f	44 3f	59 4f	74 5f	89 6f	104 7f	119 8f	134 9f
13 1e	28 2e	43 3e	58 4e	73 5e	88 6e	103 7e	118 8e	133 9e
12 1d	27 2d	42 3d	57 4d	72 5d	87 6d	102 7d	117 8d	132 9d
11 1c	26 2c	41 3c	56 4c	71 5c	86 6c	101 7c	116 8c	131 9c
10 1b	25 2b	40 3b	55 4b	70 5b	85 6b	100 7b	115 8b	130 9b
9 1a	24 2a	39 3a	54 4a	69 5a	84 6a	99 7a	114 8a	129 9a
8 19	23 29	38 39	53 49	68 59	83 69	98 79	113 89	128 99
7 18	22 28	37 38	52 48	67 58	82 68	97 78	112 88	127 98
6 17	21 27	36 37	51 47	66 57	81 67	96 77	111 87	126 97
5 16	20 26	35 36	50 46	65 56	80 66	95 76	110 86	125 96
4 15	19 25	34 35	49 45	64 55	79 65	94 75	109 85	124 95
3 14	18 24	33 34	48 44	63 54	78 64	93 74	108 84	123 94
2 13	17 23	32 33	47 43	62 53	77 63	92 73	107 83	122 93
1 12	16 22	31 32	46 42	61 52	76 62	91 72	106 82	121 92
0 11	15 21	30 31	45 41	60 51	75 61	90 71	105 81	120 91
Stack# vs. Coordinate (18 MP x 135 (9 x 15) Sectional Photos)								

Micrograph Library

I am introducing total 25 die micrographs I made.

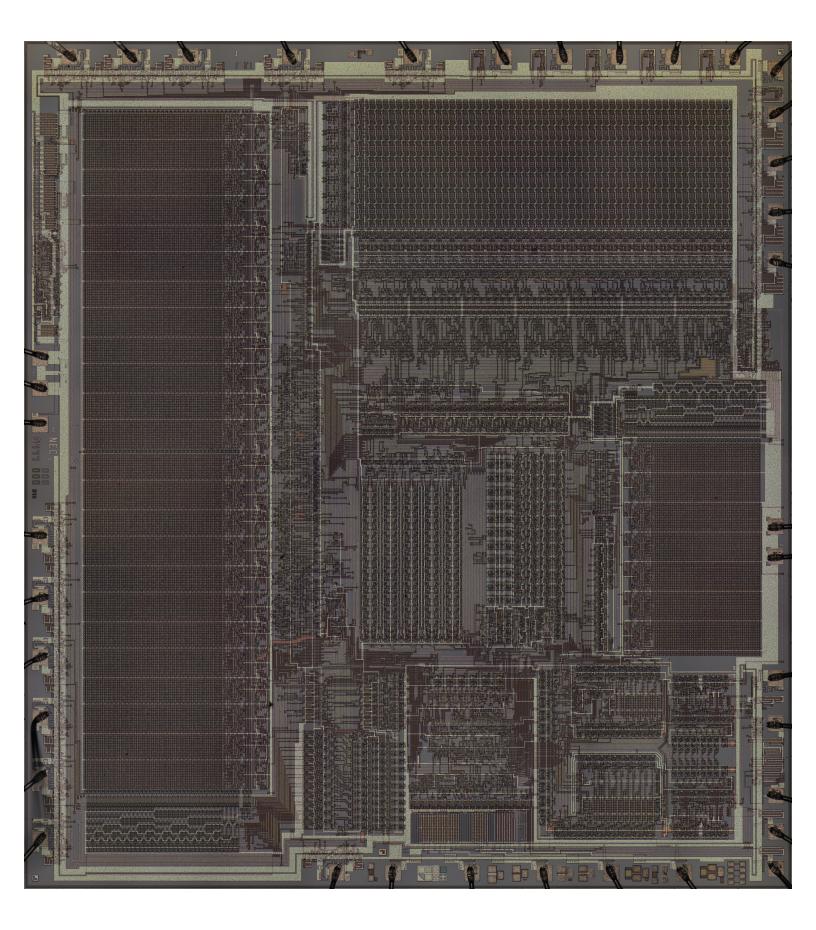
When zooming die micrograph using a smart phone or tablet, you possibly experience limited maximum available zoom factor (up to 2x), slow zooming speed, and sometimes freeze because of the factors such as slow CPU, insufficient main memory capacity, and simplified PDF viewer installed.

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		<u>µPD282D</u>	12 Digit Desk-top Calculator (ALU, Registers, etc.) <tetsuji oguchi=""></tetsuji>				
		<u>µPD941C</u>	Single-chip 8 Digit 0 memory Desk-top Calculator <tetsuji oguchi=""></tetsuji>				
		<u>µPD946C</u>	Single-chip 8 Digit 1 memory Desk-top Calculator				
		µPD1201C	Single-chip 12 Digit 1 memory Desk-top Calculator with Printer Control <tetsuji oguchi=""></tetsuji>				
		<u>µPD777D</u>	Single-chin Television Game Processor - Tatsuii Ogushi & Tashia Ouraa				
		<u>µPD777C</u>	Single-chip Television Game Processor <tetsuji &="" oguchi="" oura="" toshio=""></tetsuji>				
		µPD7220AD	Graphics Display Controller (GDC) <tetsuji oguchi=""></tetsuji>				
NEC	Intel	<u>iD82720</u>	Graphics Display Controller (GDC) - License manufacturing (Second source) of µPD7220				
NEC		<u>µPD72120L</u>	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=""></toshio>				
		μPD977	Single-chip 8 Digit 1 memory Desk-top Calculator				
Casio	NEC	µPD871B					
		<u>µPD873G</u>	Digital watch				
Intel		<u>8080A</u>	8 bit Microprocessor				
		<u>8085A</u>					
		<u>iD8086</u>	16 bit Microprocessor				
Intel	NEC	µPD8086D	16 bit Microprocessor - Reverse engineering of iD8086				
	Oki	<u>80C86A</u>	16 bit Microprocessor - License manufacturing (Second source) of iD8086				
Zilog		<u>84C00</u>	8 bit Microprocessor (Z80)				
Nintendo	Ricoh	<u>RP2C02</u>	Television Game Processor (Family Computer with RP2A03)				
Motorola	Ricoh	<u>RP2A03</u>	8 bit Microprocessor - Reverse engineering of Motorola 6800				
	Motorola	<u>68000</u>	16 bit Microprocessor (Apple Macintosh)				
TI <u>TMS</u>		<u>TMS9918A</u>	Television Game Processor (Multiple chips)				

{}; Architectural design by

<>; Architectural & Logic design by



 μPD777D 20x 13000 x 14352 (187 MP) 6400% (64x) Tolerant Synthesized by Hugin