

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

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9 1a	20 2a	31 3a	42 4a	53 5a	64 6a	75 7a	86 8a	97 9a	
8 19	19 29	30 39	41 49	52 59	63 69	74 79	85 89	96 99	
7 18	18 28	29 38	40 48	51 58	62 68	73 78	84 88	95 98	
6 17	17 27	28 37	39 47	50 57	61 67	72 77	83 87	94 97	
5 16	16 26	27 36	38 46	49 56	60 66	71 76	82 86	93 96	
4 15	15 25	26 35	37 45	48 55	59 65	70 75	81 85	92 95	
3 14	14 24	25 34	36 44	47 54	58 64	69 74	80 84	91 94	
2 13	13 23	24 33	35 43	46 53	57 63	68 73	79 83	90 93	
1 12	12 22	23 32	34 42	45 52	56 62	67 72	78 82	89 92	
0 11	11 21	22 31	33 41	44 51	55 61	66 71	77 81	88 91	
	Hugin Stack# vs. Coordinate (18 MP x 99 (9 x 11) Sectional Photos)								

Micrograph Library

I am introducing total 25 die micrographs I made.

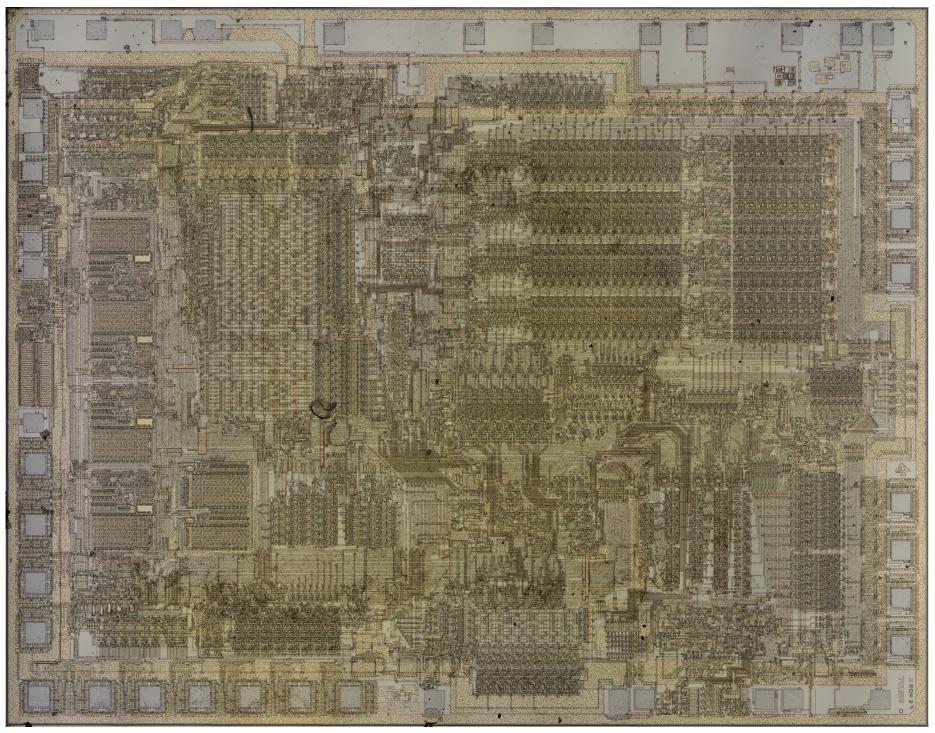
When zooming die micrograph using a smart phone or tablet, you possibly experience limited maximum available zoom factor (up to 2x), slow zooming speed, and sometimes freeze because of the factors such as slow CPU, insufficient main memory capacity, and simplified PDF viewer installed.

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		<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>	Cingle chin Television Come Processor «Tetevii Ogychi & Techie Oyro>		
		<u>µPD777C</u>	Single-chip Television Game Processor <tetsuji &="" oguchi="" oura<="" td="" toshio=""></tetsuji>		
		<u>µPD7220AD</u>	Graphics Display Controller (GDC) <tetsuji oguchi=""></tetsuji>		
NEC	Intel	<u>iD82720</u>	Graphics Display Controller (GDC) - License manufacturing (Second source) of µPD7220		
		<u>µPD72120L</u>	Advanced Graphics Display Controller (AGDC) <tetsuji al.="" et="" oguchi,=""></tetsuji>		
NEC		<u>µPD765C</u>	Floppy Disk Controller {NEC Fuchu Peripheral Equipment Division}		
		<u>µPD7720AD</u>	Signal Processor {NEC Central Research}		
		μPD277	Single-chip 8 Digit 1 memory Desk-top Calculator <toshio oura=""></toshio>		
Casio		<u>µPD977</u>	Single-chip 8 Digit 1 memory Desk-top Calculator		
	NEC	<u>µPD871B</u>	Disital watch		
		<u>µPD873G</u>	Digital watch		
			8 bit Microprocessor		
Intel		<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>		Television Game Processor (Multiple chips)		

{}; Architectural design by

<>; Architectural & Logic design by



TMS9918A 20x Die Photo 15000 x 11705 (176 MP) 6400% Tolerant Synthesized by Hugin