

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

12 1d	25 2d	38 3d	51 4d	64 5d	77 6d	90 7d	103 8d	
11 1c	24 2c	37 3c	50 4c	63 5c	76 6c	89 7c	102 8c	
10 1b	23 2b	36 3b	49 4b	62 5b	75 6b	88 7b	101 8b	
9 1a	22 2a	35 3a	48 4a	61 5a	74 6a	87 7a	100 8a	
8 19	21 29	34 39	47 49	60 59	73 69	86 79	99 89	
7 18	20 28	33 38	46 48	59 58	72 68	85 78	98 88	
6 17	19 27	32 37	45 47	58 57	71 67	84 77	97 87	
5 16	18 26	31 36	44 46	57 56	70 66	83 76	96 86	
4 15	17 25	30 35	43 45	56 55	69 65	82 75	95 85	
3 14	16 24	29 34	42 44	55 54	68 64	81 74	94 84	
2 13	15 23	28 33	41 43	54 53	67 63	80 73	93 83	
1 12	14 22	27 32	40 42	53 52	66 62	79 72	92 82	
0 11	13 21	26 31	39 41	52 51	65 61	78 71	91 81	
Hugin Stack# vs. Coordinate (18 MP x 104 (8 x 13) Sectional Photos)								

Micrograph Library

I am introducing total 25 die micrographs I made.

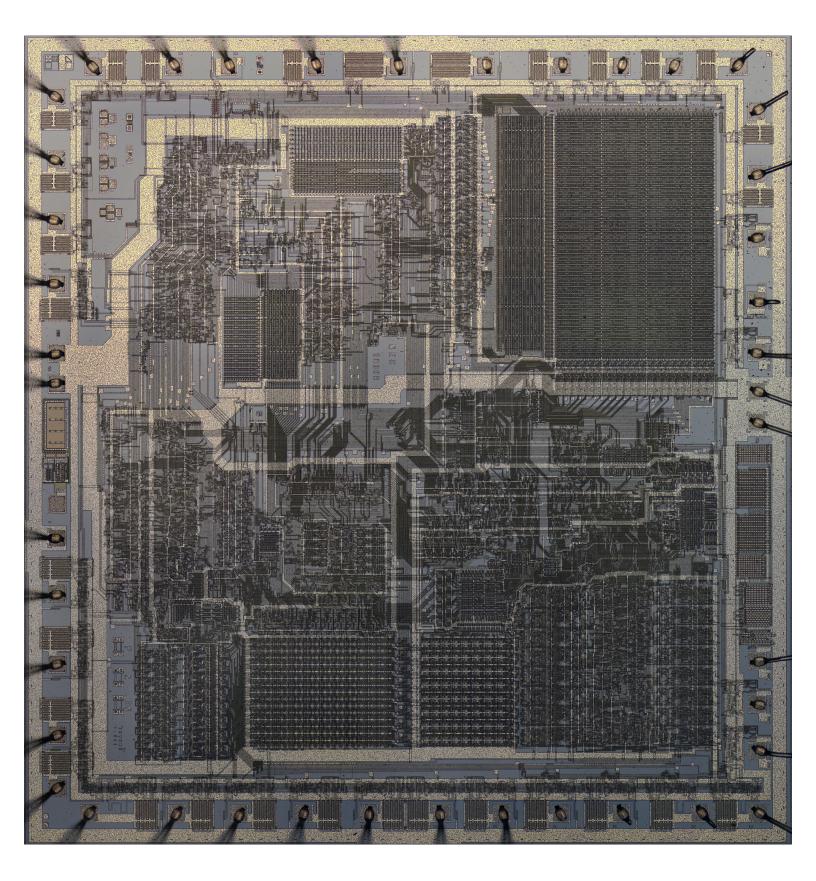
When zooming die micrograph using a smart phone or tablet, you possibly experience limited maximum available zoom factor (up to 2x), slow zooming speed, and sometimes freeze because of the factors such as slow CPU, insufficient main memory capacity, and simplified PDF viewer installed.

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		
		<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 & Toshio Oura		
		<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 Oguchi, et al.>		
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	NEC	<u>µPD977</u>	Single-chip 8 Digit 1 memory Desk-top Calculator		
		<u>µPD871B</u>	Digital watch		
		<u>µPD873G</u>			
			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>TMS99</u>		Television Game Processor (Multiple chips)		

{}; Architectural design by

<>; Architectural & Logic design by



 $\mu\text{PD8086D}$ 20x 13000 x 13688 (178MP) 6400% (64x) Tolerant Synthesized by Hugin