

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

11 1c	23 2c	35 3c	47 4c	59 5c	
10 1b	22 2b	34 3b	46 4b	58 5b	
9 1a	21 2a	33 3a	45 4a	57 5a	
8 19	20 29	32 39	44 49	56 59	
7 18	19 28	31 38	43 48	55 58	
6 17	18 27	30 37	42 47	54 57	
5 16	17 26	29 36	41 46	53 56	
4 15	16 25	28 35	40 45	52 55	
3 14	15 24	27 34	39 44	51 54	
2 13	14 23	26 33	38 43	50 53	
1 12	13 22	25 32	37 42	49 52	
0 11	12 21	24 31	36 41	48 51	
Hugin Stack# vs. Coordinate (18 MP x 60 (5 x 12) Sectional Photos)					

Micrograph Library

I am introducing total 25 die micrographs I made.

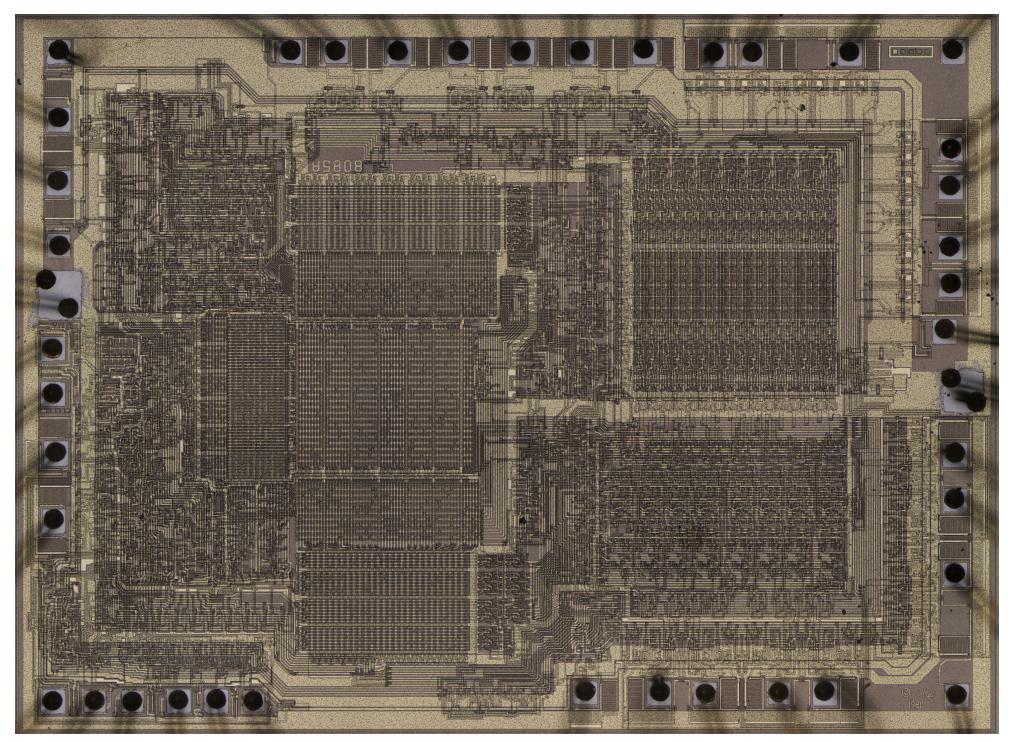
When zooming die micrograph using a smart phone or tablet, you possibly experience limited maximum available zoom factor (up to 2x), slow zooming speed, and sometimes freeze because of the factors such as slow CPU, insufficient main memory capacity, and simplified PDF viewer installed.

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=""></tetsuji>	
		μPD941C	Single-chip 8 Digit 0 memory Desk-top Calculator <tetsuji oguchi=""></tetsuji>	
		μPD946C	Single-chip 8 Digit 1 memory Desk-top Calculator	
		μPD1201C	Single-chip 12 Digit 1 memory Desk-top Calculator with Printer Contro <tetsuji oguchi=""></tetsuji>	
		<u>μΡD777D</u>	Single-chip Television Game Processor <tetsuji &="" oguchi="" oura="" toshio=""></tetsuji>	
		<u>μΡD777C</u>		
		<u>μΡD7220AD</u>	Graphics Display Controller (GDC) <tetsuji oguchi=""></tetsuji>	
NEC	Intel	iD82720	Graphics Display Controller (GDC) - License manufacturing (Second source) of µPD7220	
NEC		μPD72120L	Advanced Graphics Display Controller (AGDC) <tetsuji al.="" et="" oguchi,=""></tetsuji>	
		μPD765C	Floppy Disk Controller {NEC Fuchu Peripheral Equipment Division}	
		<u>μΡD7720AD</u>	Signal Processor {NEC Central Research}	
		μPD277	Single-chip 8 Digit 1 memory Desk-top Calculator <toshio oura=""></toshio>	
Casio		μPD977	Single-chip 8 Digit 1 memory Desk-top Calculator	
	NEC	μPD871B	Digital watch	
		μPD873G		
Intel		8080A	8 bit Microprocessor	
		<u>8085A</u>		
		<u>iD8086</u>	16 bit Microprocessor	
Intol	NEC	μPD8086D	16 bit Microprocessor - Reverse engineering of iD8086	
Intel	Oki	<u>80C86A</u>	16 bit Microprocessor - License manufacturing (Second source) of iD8086	
Zilog		<u>84C00</u>	8 bit Microprocessor (Z80)	
Nintendo	Ricoh	RP2C02	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>TMS991</u>		TMS9918A	Television Game Processor (Multiple chips)	

^{{};} Architectural design by

<>; Architectural & Logic design by



8085A 20x Die Photo 18000 x 13181 (237 MP) 6400% (64x) Tolerant Synthesized by Hugin