



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=""></tetsuji>		
		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=""></tetsuji>		
		μ <u>PD777D</u>	Single-chip Television Game Processor < Tetsuji Oguchi & Toshio Oura>		
		<u>μΡD777C</u>	Single City Television durine Processor Stellagi Ogucin & Toshilo Ouraz		
		<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 Oguchi, et al.>		
		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>		
	NEC	μPD977	Single-chip 8 Digit 1 memory Desk-top Calculator		
Casio		μPD871B	Digital watch		
		μPD873G	Digital watch		
Intel		8080A	8 bit Microprocessor		
		<u>8085A</u>			
		<u>iD8086</u>	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		<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>T</u>		TMS9918A	Television Game Processor (Multiple chips)		

^{{};} Architectural design by

<>; Architectural & Logic design by

