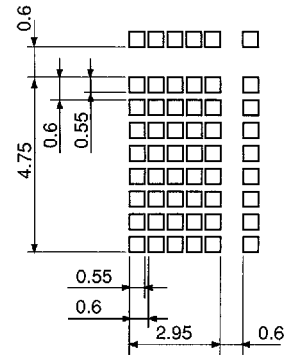


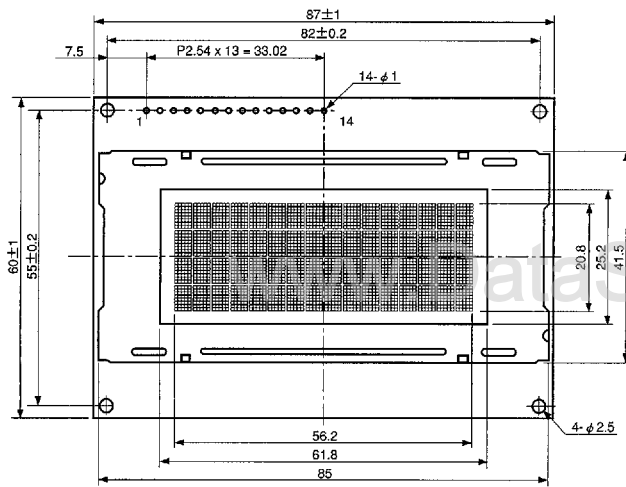
# GMD1640A 16 Characters × 4 Lines 1/16 Duty



● Display Pattern



● Module Dimensions (Reflective)



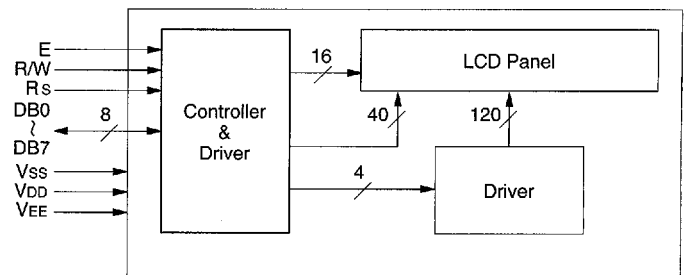
Unit : mm

● Interface Pin Functions

Pin No.	Symbol	Level	Function
1	Vss	—	Supply Voltage 0V (GND) +5V for Liquid Crystal Driving
2	VDD	—	
3	VEE	—	
4	Rs	H/L	Register Selection Signal H : Data Register L : Instruction Register
5	R/W	H/L	H : Data Read (MPU←LCD) L : Data Write (MPU→LCD)
6	E	H/L	Operation start signal for data read/write
7	DB0	H/L	Data Bus (lower order 4 lines)
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	Data Bus (higher order 4 lines)
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
*15	A(LED+)	—	Supply Voltage for LED Backlighting
*16	K(LED-)	—	0V(GND)

Note) \* marked pins are only for LED backlighting type. (GMD1640ALY)

● Block Diagram



● DD RAM Address

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Line 1	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
Line 2	40	41	42	43	44	45	46	47	48	49	4A	4B	4C	4D	4E	4F
Line 3	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F
Line 4	50	51	52	53	54	55	56	57	58	59	5A	5B	5C	5D	5E	5F

RAM area : 00H ~ 27H & 40H ~ 67H