FM70GX48AA-100A

70x48 px (dots)

A9..A7

Col.0 Col.1 Col.2 ... Col.69 Col.70

Addr		
0b000x / 0x00_	Page 0	
0b001x / 0x08_	Page 1	
0b010x / 0x10_	Page 2	
0b011x / 0x18_	Page 3	
0b100x / 0x20_	Page 4	
0b101x / 0x28_	Page 5	

D0 D1 D2 D3 D4 D5 D6 D7

Col.70: is for icons on small display.

A6 . . . A0

0b0000000 0x00
0b0000001 0x01
0b0000010 0x02
...
0b1000100 0x45
0b1000101 0x45
0b1000110 0x46

Page0, Col.70, Addr: 0b00001000110 (0x046)

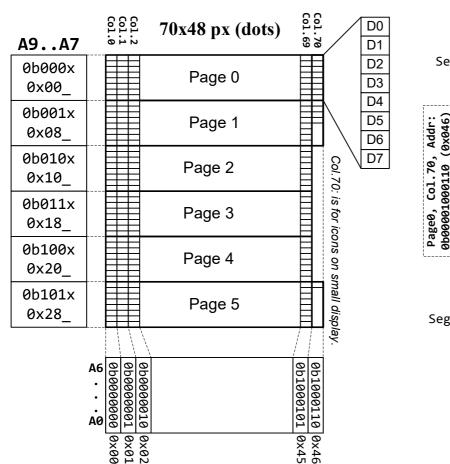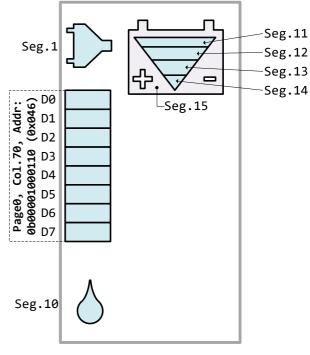D0 D1 D2 D3 D4 D5 D6 D7

Seg.1
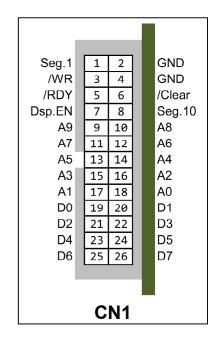Seg.11
Seg.12
Seg.13
Seg.14
Seg.15
Seg.10

Seg.15: Page5/Col.70/D0
Seg.11..14: Page1/Col.70/D0..D3
Seg.1 : Digital In #1 (CN1/pin 1)
Seg.10: Digital In #8 (CN1/pin 8)

FM70GX48AA-100A

Parameter	Symbol	Min	Typ	Max	Unit
Electrical characteristics					
Display supply voltage	Vdd	10,8	12	13,2	V
Display supply current	Idd		240	280	mA
Logic supply voltage	Vcc	4,75	5	5,25	V
Logic supply current	Icc		10	15	mA
Logic High level input	V_{IH}	0,7*Vcc		5,25	V
Logic Low level input	V_{IL}	0		0,2*Vcc	V
Logic High level output	V_{OH}	4,45			V
Logic Low level output	V_{OL}			0,05	V
Specification - FIP1 (dot-matrix display)					
Dot format	-		70 x 48		dots
Dot pitch	-		0,8 x 0,8		mm
Dot size	-		0,45 x 0,45		mm
Luminance - Color: Green (upper 70x40 dots)	-		410		cd/m2
	-		120		fL
Luminance - Color: Red (lower 70x8 dots)	-		102		cd/m2
	-		30		fL
Specification - FIP2 (icon display)					
Luminance (Color: Green)	-		513		cd/m2
	-		150		fL

CN1

Seg.1	1	2	GND
/WR	3	4	GND
/RDY	5	6	/Clear
Dsp.EN	7	8	Seg.10
A9	9	10	A8
A7	11	12	A6
A5	13	14	A4
A3	15	16	A2
A1	17	18	A0
D0	19	20	D1
D2	21	22	D3
D4	23	24	D5
D6	25	26	D7

CN2:
1: +5V
2: +12V
3: GND
4: GND

CN3:
Brightness control. Use 100kΩ pot. or leave jumper