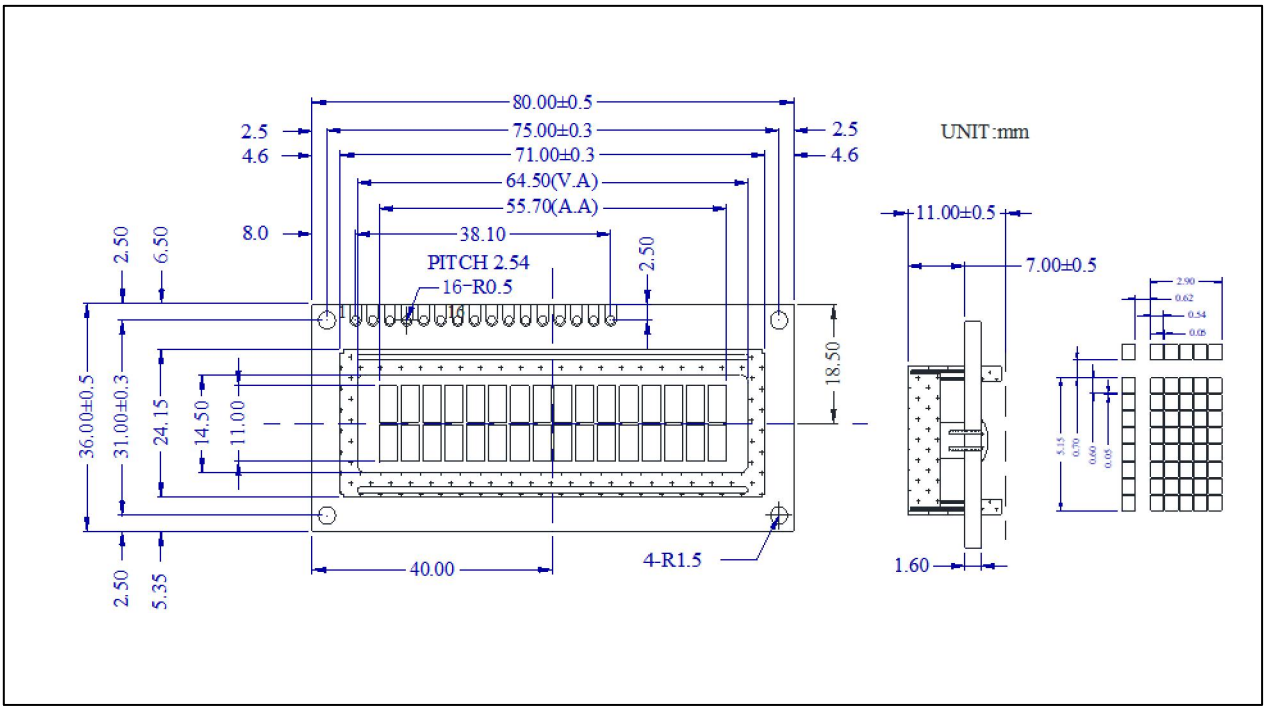
HXC160201-V1

16 characters x 2 rows + white LED backlight, 8-bit parallel



ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage(Logic)	V_{DD}- Vss	-0.3	7.0	V
Supply Voltage(LCD)	Vo - Vss	-0.3	10.0	V
Input Voltage	V_I	-0.3	V_{DD}+ 0.3	V
Operating Temp.	T_{opr}	-20	70	°C
Storage Temp.	T_{stg}	-40	80	°C

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	80.0 x 36.0 x 13.0	mm
Viewing Area (W x H)	64.5 x 14.5	mm
Character size (W x H)	2.90 x 5.15	mm
Dot Size (W x H)	0.54 x 0.60	mm
Weight	Approx. 36	g

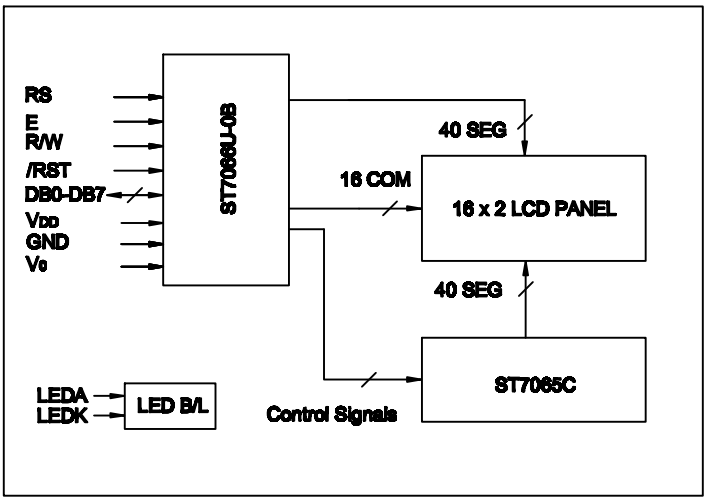
ELECTRICAL CHARACTERISTICS (V_{DD}=5V±0.15V)

Item	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Input High Voltage	V_{IH}	–	0.7V_{DD}	–	V_{DD}	V
Input Low Voltage	V_{IL}	–	- 0.3	–	0.6	V
Output High Voltage	V_{OH}	I_{OH} = - 0.1mA	0.8V_{DD}	–	V_{DD}	V
Output Low Voltage	V_{OL}	I_{OL} = 0.1mA	0	–	0.4	V
Supply Current	I_{DD}	V_{DD} = 5.0V	–	1.5	3.0	mA
LCD Driving Voltage	Vo - Vss	Ta=25°C	–	4.8	–	V

PIN DESCRIPTIONS

Pin	Symbol	Level	Function
1	GND	0V	GND
2	V_{DD}	5V(3.3V)	Power supply for logic
3	Vo	–	No connection
4	RS	H/L	H : Data L : Instruction code
5	R/W	H/L	H : Read L : Write
6	E	H,H→L	Enable signal Read data when E is high Write data at falling edge of E
7	DB0	H/L	Data bus
8	DB1	H/L	
9	DB2	H/L	
10	DB3	H/L	
11	DB4	H/L	
12	DB5	H/L	
13	DB6	H/L	
14	DB7	H/L	
15	LEDA	5V(3.3V)	Power supply for LED backlight
16	LEDK	0V	

BLOCK DIAGRAM(PARALLEL MODE)



LED BACKLIGHT SPECIFICATIONS (Ta=25° C)

Item	Symbol	Typ.	Max.	Unit
Forward Voltage	V_f	5.0		V
Forward Current	I_f	15	20	mA
LED Color	White			