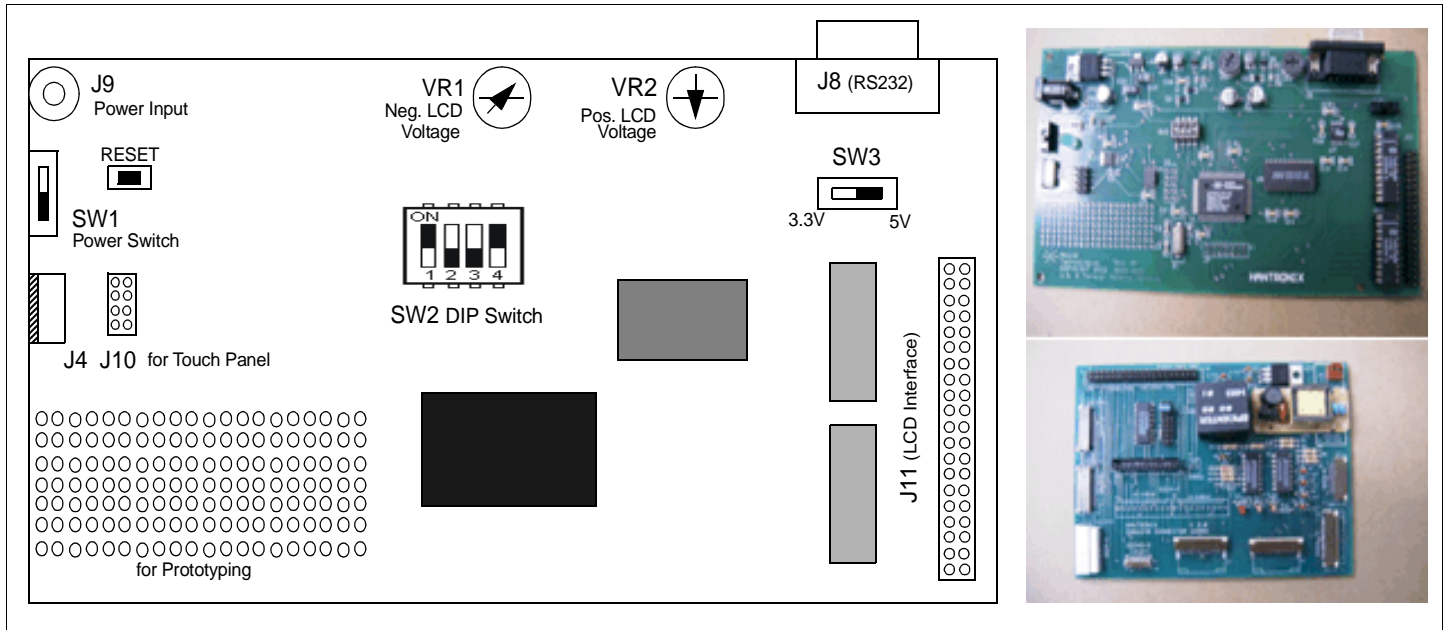


# Graphic Evaluation Kit

## HCK-A-1

Mono Graphic modules without Controller



### Features

#### Easy evaluation and demonstration

- On Board NVRAM to store demo content
- Download content via RS-232 serial port (J8)
- Create contents by general HTML authoring tools, compile the content to small size HTML by uHTML compiler

#### Easy Interface with LCD modules

- 40-pin connector (J11) for Hantronix QVGA interface card, HDM3224-1, HDM3224-2, HDM3224-5, HDM3224-6, HDM3224-7, HDM2432L-T-xxTF
- Positive and Negative LCD contrast voltage
- LCD logic power selection : 5V or 3.3V
- 4-pin Touch panel connector (J10) : configurable pinout
- Prototyping area for new LCD connections
- AC adaptor for power source
- Power switch and indicating LED

#### Physical Data

Size.....166W x 94H x 16 T mm  
Weight.....82g

#### Includings

- Controller Board
- 40 connector flat ribbon cable, 6" long
- 9 pin serial interface cable, 6' long
- AC adaptor
- Amulet uHTML compiler and documentation CD
- 30 days evaluation copy (version 2.1.9)
- Operation Guide

#### Options

- Hantronix QVGA Interface Card with proper connector and B/L inverter if required
- Full version Amulet uHTML compiler (HCK-A-2)

### Pin Connections

PIN NO.	SYMBOL	LEVEL	FUNCTION
<b>LCD CONNECTOR (J11)</b>			
1	DB0	H/L	Data bus
3	DB1	H/L	
5	DB2	H/L	
7	DB3	H/L	
9	DB4	H/L	
11	DB5	H/L	
13	DB6	H/L	
15	DB7	H/L	
2,8,14,20,26	Vss	0 V	Signal Ground
4,6,10,12,16,17,18,19,21,22,23,24,25,27,28,29,31,38	NC		No Connection
30	-V <sub>L</sub>		Negative LCD Bias Voltage
32	V <sub>DD</sub>	5 or 3.3V	Power Supply for Logic
33	CL2	H/H/EL	Data Shift
34		+ 12V	Power Supply
35	DISPOFF	H/L	H=ON, L=OFF
36	+V <sub>L</sub>		Positive LCD Bias Voltage
37	CL1	H/H/EL	Data latch signal
39	FLM	H/L	Frame Pulse
40	M	H/L	Liquid Crystal AC drive signal
<b>SERIAL CONNECTOR (J8)</b>			
1,9	NC		No Connection
2	DOUT		Data from control board
3	DIN		Data to control board
5	GND	0 V	Signal Ground
4,6			Connected
7,8			Connected
<b>TOUCH PANEL CONNECTOR (J10)</b>			
1	Y-		Connection configured with Jumpers, J4/J5 and J10 jumpers
3	Y+		
5	X-		
7	X+		