

Open Panels for OEM



Human Machine Interface

Professional Human Machine Interface Manufacturer

Introduction

Brainchild offers Open WinCE 6.0 panels to run third party software for OEM applications. All HMI panels are with ARM processors, Wide panels, high resolution, 65K colors, 128MB ROM, 128/256MB RAM, WinCE operating system image optimized for best performance. HMI screens are available in four sizes of 4.3", 7", 10" and 15" allowing you to choose the right model that best fits the requirements of your application

Key features

WinCE 6.0 operating system

WinCE Core or WinCE Professional

BSP & SDK for OEM applications

Vertical or Horizontal installation

2 serial ports, Ethernet port, USB host and SD slot

Optional Sound input & output card

Metal enclosure for Rugged environment

Optional stainless steel front with IP66K for food, beverage, pharma, oil, gas, etc.

LED technology for display, low power consumption and fan-less operation

Run third party SCADA software like Indusoft, Wonderware, Movicon, etc & Visual Studio applications

Customized faceplate for private labeling. Standard neutral silver or black color faceplates

Windows CE image update tools available for quick upgrade of the operating system

OEM tools (auto run maker) for boot loading image, run power on application, desktop shortcut, registry editing, etc.

Web browser (Internet explorer) included in WinCE 6.0 Professional image

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Brainchild Electronic. Co., Ltd.

Open Panels Specifications

Model	HMI 450	HMI 730	HMI 750	HMI 1050	HMI 1550
Display					
Size	4.3"	7"	7"	10"	15"
Resolution (W X H in pixels)	480 x 272	800 x 480	800 x 480	1024 x 768	1024 x 768
Display type	TFT wide touch screen	TFT wide touch screen	TFT wide touch screen	TFT touch screen	TFT touch screen
Colors	65,536	65,536	65,536	65,536	65,536
Touch screen type	Resistive analog touch screen	Resistive analog touch screen	Resistive analog touch screen	Resistive analog touch screen	Resistive analog touch screen
Active display area (W X H mm)	95 x 54	152 x 91	152 x 91	203 x 152	304 x 228
Display position	Both horizontal and vertical	Both horizontal and vertical	Both horizontal and vertical	Both horizontal and vertical	Both horizontal and vertical
MTBF back light at 25 °C	30,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs	50,000 hrs
Backlight	LED	LED	LED	LED	CCFL
Brightness adjustment	Yes	Yes	Yes	Yes	Yes
Screen saver	Yes	Yes	Yes	Yes	Yes
Main Hardware					
Processor, CPU speed	ARM 11, 533Mhz	ARM 11, 533Mhz	ARM Cortex-A8, 667 MHz	ARM Cortex-A8, 667 MHz	ARM Cortex-A8, 667 MHz
Flash Memory (ROM)	128 MB	128 MB	128 MB	128 MB	128 MB
SDRAM (RAM)	128 MB	128 MB	256 MB	256 MB	256 MB
Operating system	WinCE® 6.0	WinCE® 6.0	WinCE® 6.0	WinCE® 6.0	WinCE® 6.0
Real Time Clock	Yes	Yes	Yes	Yes	Yes
Buzzer	Yes	Yes	Yes	Yes	Yes
Sound Input + Output (3DI + 3 DO)	N.A	N.A	Option	Option	Option
SD card slot	Option	Option	Yes	Yes	Yes
Interfaces					
RS232C, DB9 Male	1	1	1	1	1
RS232C/ RS422/ RS485, DB25 Female	1	1	1	1	1
Ethernet 10/100 Mbps, RJ45	Option	Option	1	2	2
USB Host, 1.1	1	1	1	1	1
General Specifications					
Power supply	11- 36VDC	11-36VDC, 90-250VAC	11-36VDC, 90-250VAC	11-36VDC, 90-250VAC	11-36VDC, 90-250VAC
Consumption (w/o sound output)	10W	12W	13W	15W	27W
Power on LED indicator	Yes	Yes	Yes	Yes	Yes
Outer dimensions (W x H x D mm)	140 x 116 x 57	212 x156 x 57	212 x156 x 57	325 x 263 x 56	400 x 310 x 56
Mounting depth (mm)	51	51	51	50	50
Panel cutout (W X H mm)	123 ⁺¹ X 99 ⁺¹	197 ⁺¹ X 141 ⁺¹	197 ⁺¹ X 141 ⁺¹	310 ⁺¹ X 248 ⁺¹	367 ⁺¹ X 289 ⁺¹
Protection	IP65 front, IP20 rear	IP65 front, IP20 rear	IP65 front, IP20 rear	IP65 front, IP20 rear	IP65 front, IP20 rear
Front bezel, housing	Plastic, Plastic	Plastic, Plastic	Aluminum, Plastic	Aluminum, Metal	Aluminum, Metal
Stainless steel front bezel (option)	N.A	N.A	Option, IP66K	Option, IP66K	Option, IP66K
Installation	Panel Mount	Panel Mount	Panel Mount	Panel Mount	Panel Mount
Net weight (kgs)	0.5	1.2	1.4	3.6	5.1

Operating temperature: 0°C to 50°C
 Storage temperature : -20°C to 60°C
 Humidity : 10% to 90% RH

Vibration resistance: 9 to 150 Hz, 9.8 m/s², X,Y & Z directions 10 times (100 min.)
 Operating Shock resistance : 15g at 11 msec
 Altitude : 2000 meters

Safety Standards :    

Open panels ordering code

HMI 450	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0
HMI 730	<input type="checkbox"/>	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/> 0
HMI 750	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/>
HMI 1050	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/>
HMI 1550	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 1	<input type="checkbox"/> 1	<input type="checkbox"/> 0	<input type="checkbox"/>	<input type="checkbox"/>
Power supply	<p>1: 11 to 36 V DC 2: 90 to 250 V AC</p>						
Sound input+output (3DI+3DO)	<p>0: none 1: Yes</p>						
SD card slot	<p>0: None 1: Yes</p>						
Ethernet	<p>0: none 1: yes</p>						
Other networks	<p>0: none</p>						
Operating system	<p>3: WinCE 6.0® Core 4: WinCE 6.0® Professional</p>						
Enclosure	<p>0: standard HMI 450, 730: all plastic, 750: aluminium front, plastic rear, HMI 1050, 1550: aluminium front, metal rear 1: option HMI 750, 1050, 1550 only, stainless steel front, high pressure water protection IP66K, good for food, beverage, tobacco, pharmaceutical industries</p>						

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