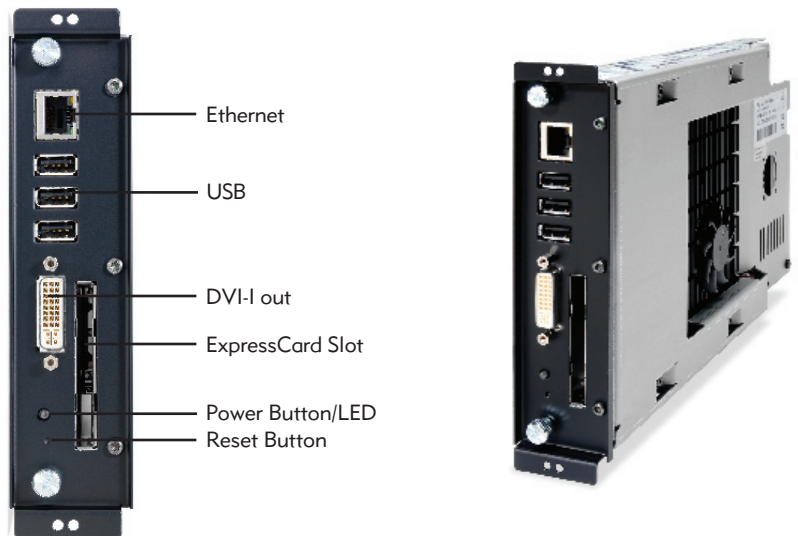# NEC MPD-SBC-8/16-2

Single Board Computers for NEC Large-Screen LCD Displays

Enjoy full PC functionality integrated directly within your NEC display. NEC's single board computer, available with an 800 MHz Celeron processor or 1.66 GHz Core Duo processor, offers the robust flexibility and performance required to process digital signage content. Used with select NEC displays' expansion slots, this solution eliminates the need for an external PC, cabling, mounting and power supply. It provides for clean, hidden integration, while reducing the bill of materials needed for installation and eliminating the hassle of hiding hardware equipment. In addition, the ability to drive discrete images on two different displays from one SBC via a DVI-I output allows for greater functionality while further reducing cost. These benefits make NEC's single board computer ideal for markets such as transportation, public information, corporate, retail and rental staging.

Ethernet

USB

DVI-I out

ExpressCard Slot

Power Button/LED
Reset Button

Features and Benefits

Seamless design provides for clean, hidden integration that eliminates the need for external cabling, mounting and power supply. Service can be performed while the display is still mounted, simplifying installation and reducing maintenance.

1.66 GHz Core Duo or 800 MHz Celeron CPU offers flexibility for robust performance to process digital signage content, rendering beautiful imagery

Intel graphics chipset allows for rendering of exceptional 3D graphic performance and resolutions up to 1920 x 1080

Landscape and portrait orientations provide for enhanced reliability compared to standard desktop PC and graphics cards

ExpressCard slot allows use of WLAN, UMTS, DVB-T

Trade compliancy eliminates procurement hassles for government agencies

3-year warranty matches that of the display

CPU	
MPD-SBC-8	800 MHz Celeron
MPD-SBC-16-2	1.66 GHz Core Duo
RAM	
MPD-SBC-8	1 GB
MPD-SBC-16-2	2 GB
HDD	120 GB, 2.5"
Graphics (board)	Intel, up to 224 VRAM, integrated 3D
Interfaces frontside	3 x USB 2.0
	ExpressCard Slot 54 mm
	DVI-I Output
	RJ45 10/100 Mbps
Operating System	Microsoft® Windows XP Pro (pre-loaded)
	(compatible with Linux)
Operating Temperature	5 - 60°C, 90% RH
Optimum Resolution	1920 x 1080 @ 60 Hz, 1360 x 768 @ 60 Hz
Other Resolutions	1280 x 720 @ 60 Hz, 1024 x 768 @ 60 Hz,
	800 x 600 @ 60 Hz
Power Consumption (CPU 100%)	
SBC Low	6.5W
SBC High	10.5W
Audio	Analog stereo, output via 3.5mm head-jack of display
RS-232	via internal communication to Public Display
Weight	3.3 lbs. / 1.5 kg
Warranty	3 years
Compatible with	M40
	M46
	MultiSync® LCD4020
	MultiSync LCD4620
	MultiSync LCD5220
	MultiSync LCD6520L/P

NEC