

# mPanel

**Home**  
by Embedded Automation



## *mPanel is the portal to your Digital Home*

### Easy to Install ...

- mPanel can be installed at any Ethernet drop location.
- Power mPanel either through an Ethernet cable (using the conveniently built-in Power over Ethernet [PoE] sub-system) or the optional AC to DC adapter.
- Attach your in-ceiling or in-wall speakers directly to mPanel. mPanel's built-in amplifier precludes "home-running" control and speaker cabling – greatly reducing installation time and cost.
- mPanel attaches to your wall in minutes using the 4 screw dog leg mounting system.

### Easy to Integrate ...

- Select the mPanel faceplate which best suits your room décor. The faceplate attaches magnetically and has the same low profile as a typical light switch.
- mPanel will find your default music library – all you have to do is select the album, artist or playlist that you want to listen to.
- mPanel auto-discovers your mControl server – making home control integration a snap. To customize an mPanel to a room, all you need to do is select the preferred zones and devices for that location.

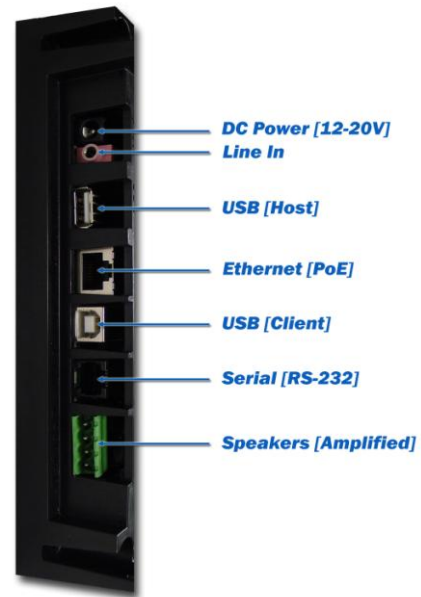
### Easy to Use ...

- Play music – select the album, artist or playlist of your choice. Full meta-data information is displayed.
- mPanel home control user interface mimics mControl's popular Vista Media Center interface – including one-touch control elements and instant status feedback.
- One-button access to your security system, climate control, cameras and more.



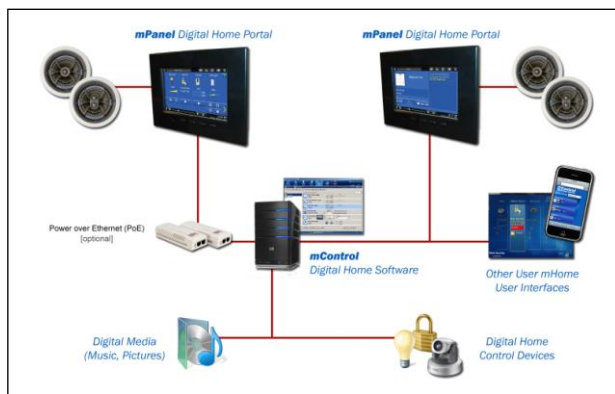
# mPanel Specifications

- ARM9 800MHz, 1GB Flash, Windows CE 6.0
- 7" TFT LCD (800 x 480) with 4-wire touch
- Power over Ethernet [802.3AF Powered Device] (DC Power connector available for non-PoE applications)
- Line in [stereo]
- USB connectors [Host and Client]
- Ethernet RJ-45 10/100BaseT
- Serial RJ-11 [RS-232]
- On-board audio amplifier. Speakers connect via 4-pin Phoenix connector [mating plug provided]
  - 2 x 20W Output Power in Stereo Mode (8Ω, THD = 10%)
  - 20W/ch with 19.5V external supply
  - 15W/ch with dual channel PoE
  - High Efficiency: Up to 87%
  - Line Gain +22dB.
  - High PSRR (90dB at 1kHz)
  - Shutdown and Mute Control
  - Full differential output
  - Thermal Protection
- mPanel software - Plays networked media [supports all Windows Media Player 10 formats and playlists]. Auto-discover mControl automation servers for home device status and control. mControl supports lighting systems, security panels, thermostats, cameras and more.



# mHome Architecture

- mHome products connect via standard Ethernet used in most new home construction
- Multiple mPanels can be installed within a home – a single mControl server is required
- A centralized server, for example, using Microsoft's award-winning "Windows Home Server" technology, running mControl can provide a mechanism to store Terabytes of digital media (music, DVDs, videos, pictures) and simplified remote access
- mControl connects to digital home devices via IP, serial or USB technology. *For a complete list of supported Digital Home Control Devices, visit [www.EmbeddedAutomation.com](http://www.EmbeddedAutomation.com)*
- Remote access is available using standard web browser interface



# mPanel Models

mPanel Models	STD	XP	MX	MP
mPanel Software: UPnP Digital Music/Photo player and mControl user interface	-	-	✓	✓
On-board Digital Audio Amplifier	-	-	✓	✓
Power Over Ethernet (PoE) Support	-	✓	-	✓
Can run other software (e.g., Elk, HSTouch)	✓	✓	✓	✓

Screenshot: mPanel Software (Music Selection)

