

NXT-700 Architectural Specifications

Minimum Hybrid Touch panel requirements:

- 7.0" 800 x 480 resolution color wall mount touch panel with integrated control system that can utilize a real time, event driven, multi-tasking, multi-threaded operating system with a co-processor architecture environment.
- Utilize a 32bit MIPS processor at no less that 700 MIPS.
- High speed processor shall communicate directly with Ethernet, control ports and non-proprietary control network utilizing high-speed infrastructure. Control processors that communicate via a proprietary bus shall not be accepted.
- Shall contain 256MB Flash and 128MB DDR2 memory.
- Shall have a front bezel made of Aluminum.
- Support communications to additional expansion peripherals via LAN
- Control System portion shall be non-proprietary and non-platform specific.
- Touch panel and control shall not have any licensing or restrictions.
- Touch panel shall have two LAN Ports with the following minimum capabilities:
 - ✓ TCP/IP Communications
 - ✓ DHCP and DNS Support
 - ✓ Native Email Client
 - ✓ Remote Diagnostics
 - ✓ Remote Program Loading and Administration
 - ✓ Built-In Web Server
 - ✓ FTP
 - ✓ IP Access Table
 - ✓ Built in Event Manager
- Support user assigned or dynamic IP address.
- Full API (Applications Interface) directly to control system via TCP/IP for integration with Macromedia, Visual Basic, C++, Java, etc. API support through Aurora Multimedia available programs or off the shelf programs .
- Internal FTP for uploading and downloading programs.
- Internal Web diagnostics that can be served up with a standard browser.
- Shall support a variety of programming languages that are not proprietary.
- Touch Panel manufacture shall supply web based programming software for the control system and touch panel operation free of charge and with no licensing or restrictions.
- Firmware upgradeability via TFTP, USB, and FTP.
- Shall playback MP3 and WAV audio files via Line output.
- Shall control volume of stereo line level unbalanced audio using integrated hardware.

The hybrid touch panel shall include the following hardware configuration:

- 7.0" 800 x 480 Color LCD
- 4 Wire Resistive Touch Surface
- Real Time Clock with battery back up and NTP (Network Time Protocol)
- Two 10/100 LAN Port (LAN1 POE)
- Two IR ports with one way RS-232 TX
- One Front IR Receiver
- Two 2-way RS-232/422/485 ports with full hardware handshaking
- Two Digital Input / Output port
- Two C-Type Relays
- One USB 2.0 Host
- Line In / Out Stereo Audio
- One Front Speaker
- Built in IR Learner
- MicroSD memory expansion to 16GB
- 15W 12v Power Supply