PRODUCT DATA SHEET 0 - TPMC-8x
PRODUCT DATA SHEET 1 - SECTION XXXXX –Wireless TouchPanel Interface

PART 2 - GENERAL

2.1   RELATED DOCUMENTS

PART 3 – Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to work of this Section.

3.1   SUMMARY

PART 4 – This Specification, in conjunction with the Drawings, establishes the requirements necessary to achieve the intended performance, installation and functions of the Media Distribution System.

PART 5 – Provide the services necessary to furnish, install, train, and to provide maintenance support for the wireless touchpanels including all required peripheral apparatus conforming to acceptable industry standards. All work shall be in accordance with the true intent of these Drawings and Specifications, and as required to leave the Room Media Controller complete and in satisfactory operating condition.

PART 6 – Verify dimensions and conditions at the job site prior to installation, and perform installation in accordance with these Specifications, Manufacturers recommendations and the latest edition or revision of all applicable codes and standards.

PART 7 – The Wireless touchpanel interface shall include providing and integrating the following nine (9) principal systems:

1. 8.4" active matrix touchscreen display
2. Synapse image rendering algorithm
3. DNav dynamic menu objects
4. 802.11a/b/g Wi-Fi 2-way wireless communications
5. Windows XP Embedded operating system
6. Onboard PC applications for Web browsing, streaming media, conferencing, VoIP, and remote computer access
7. Wireless video from network cameras and servers
8. Built-in biometric fingerprint scanner
9. Wall or table top dockable

7.1   CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS

PART 8 - It is intended that any contractor furnishing materials and/or labor necessary for the completion of this specification shall furnish it in compliance with this specification. Where conflict exists with other specifications concerning such materials and labor, this specification takes precedence unless otherwise approved in writing by the Engineer.

PART 9 - Drawings pertaining to this specification shall be considered as a part of said specification and shall be a part of the bid documents.

9.1   REQUIREMENTS OF REGULATORY AGENCIES

PART 10 - The system shall be registered under the most current applicable rulings of the Federal Communications Commission (FCC). Provide the FCC registration number with the equipment submittal. All components and installations shall bear an Underwriters' Laboratories (UL) listing and shall conform with the latest edition or revision of the following codes and standards were applicable and required:
1.   ANSI - American National Standards Institute
2.   ASTM - American Society for Testing and Materials
3.   BICSI - Building Industry Consulting Services International
4.   EIA - Electronics Industries Association
5.   FCC - Federal Communications Commission
6.   ICEA - Insulated Cable Engineers Association
7.   IEEE - Institute of Electrical and Electronics Engineers
8.   ISO - International Organization for Standardization
9.   NEC - National Electrical Code
10.   NEMA - National Electrical Manufacturer's Association
11.   NFPA - National Fire Protection Association.
12.   TIA - Telecommunications Industry Association
13.   UL - Underwriters Laboratories, Inc.

PART 11 - The code or standard establishing the more stringent requirements shall be followed where areas of conflict occur between codes and standards or between codes and standards and Drawings and Specifications.

11.1   SHOP DRAWINGS

PART 12 - Shop Drawings: Within Seven (7) calendar days after award of contract, submit detailed shop drawings to the Engineer for approval. Do not begin installation or fabrication without such approval. All shop drawings shall be marked with the pertaining specification paragraph or drawing number when submitted.

PART 13 - Shop drawings shall be provided clearly depicting any proposed modification to the project drawings. Any modifications shall be highlighted on the shop drawings.

PART 14 - Shop drawings shall be provided indicating proposed mounting arrangements and details of all equipment, including positioning devices, framework supports and interface with adjacent architecture.

14.1   JOB CONDITIONS

PART 15 - Keep the job adequately staffed at all times. Unless illness, loss of personnel or other circumstances beyond the control of the contractor, maintain the same individual in charge throughout.

PART 16 – Cooperate with all appropriate parties in order to achieve well-coordinated progress with the overall construction completion schedule and satisfactory final results.

PART 17 – Watch for conflicts with work of other contractors on the job and execute, without claim for extra payment, moderate moves or changes as are necessary to accommodate other equipment or to preserve symmetry and aesthetically pleasing appearance.

PART 18 – Immediately report to the Engineer any design or installation irregularities, particularly architectural elements that interfere with the intended coverage angles of loudspeakers and projectors, so that appropriate action may be taken.

PART 19 – Do all cutting, patching and painting necessary for proper and finished installation of the system and repair any damage done as a result of such installation. Cleanup and dispose of trash from all work areas.

19.1   QUALITY ASSURANCE

PART 20 – All materials shall be new and shall conform to applicable provisions of Underwriters Laboratories and the American Standards Association.

PART 21 – Procure and pay for all necessary permits, licenses and inspections and observe any requirements stipulated therein. Conform in all trades with all local regulations and codes.

PART 22 – Comply with federal, state and local labor regulations and applicable union regulations.

PRODUCTS

2.1   WIRELESS TOUCHPANEL INTERFACE

The Touchpanel shall be an integrated unit. A separate touchpanel box and touch display shall not be accepted

2.2   TOUCH PANEL

PART 23 – Provide and install as indicated on the drawing a Wireless Touchpanel interface.

PART 24 – The wireless touchpanel interface shall be an integrated A/V control technology solution and shall incorporate the following eight (8) principal devices into a single integrated housing.

        a.   8.4″ active matrix touch screen display
        b.   16-bit Isys i/O graphics with 800x600 resolution
        c.   Dynamic Navigation menu capability
        d.   802.11 a/b/g Wi-Fi 2 way wireless communications
        e.   Built in microphone and stereo speakers.
        f.   Wireless video from network cameras and servers
        g.   On-board PC applications
        h.   Biometric fingerprint scanner

2.4   PANEL OPERATION

PART 25 – The wireless touchpanel interface shall require the following operational capabilities:

1.   Graphical
   - a.   On screen :
     1)   Synapse image rendering algorithm
     2)   Minimum of 200 mode states per button
     3)   1000 discrete button channels
     4)   Native Anti-aliased 3D buttons, graphics and text
     5)   Embossed, beveled and fringed features for all objects
     6)   65,536 color colors
     7)   16-bit non pallete graphics
     8)   PNG translucency
     9)   Transition effects
     10)   DNav dynamic menu objects
     11)   Dynamic graphics
     12)   Widows® SideShow™ support
     13)   24 fps animation
     14)   Isys i/O engine

2.   b.   Hard buttons
     1)   Four(4) programmable pushbuttons
     2)   One (1) programmable 5 way thumbpad
     3)   Two (2) programmable up/down pushbuttons
     4)   One (1) pushbutton initiates "Power On' and "Power Off"

3.   c.   Embedded Applications
     1)   Microsoft® Windows® XP embedded OS
     2)   Microsoft Internet Explorer w/ Macromedia ® Flash plug in
     3)   Windows Media® player
     4)   RealPlayer®
     5)   Axis ® Media control
     6)   Crestron MJPEG viewer
     7)   Crestron IP Intercom
     8)   Skype ™
     9)   NetMeeting®
     10)   VNC viewer
     11)   Remote Desktop
     12)   Java™ Runtime
     13)   Yahoo Widgets support
     14)   Crestron keyboard
     15)   Adobe® Acrobat® Reader
     16)   WordPad
     17)   MS Word Viewer 2003
     18)   Excel® Viewer 2003
     19)   PowerPoint® viewer 2003

4.   Audio
            Hardware
            1)   Dual onboard microphones
            2)   Built-in stereo speakers
            3)   Stereo headphone outputs
                    a. One (1) 3.5mm mini phone jack
                    b.12 mW per channel
                    C.Minimum impedance: 32 Ohms

            Streaming/File formats
            1)   As supported by the embedded media players
            2)   Feedback 8 & 16 bit PCM 8-44.1 kHz sample rate .Wav

            Amplification
            1)   Stereo, 1.1 Watts per Channel
5.   Video
            1)   Streaming /file formats
                  a)   MPEG4 and MJPEG and all formats supported by embedded
                        media player.
6.   Communications
            1)   RF Transceiver
                  a)   IEEE 802.11a/b/g Wi-Fi, 5.8 or 2.4 GHz
                  b)   Static or Dynamic IP addressing
                  c)   WEP, WAP, PEAP, LEAP, Radius Security
                  Ethernet
                  a)   10baseT/100BaseTX,
                  b)   Auto Negotiating, Auto discovery
                  c)   Full/Half Duplex
                  d)   TCP/IP, UDP/IP,CIP,DHCP
                  e)   IEEE 802.3U compliant

END OF SECTION XXXX