



Conference Room Technology: Standards

Classroom Technology Support Group
Division of Customer Service
Office of Information Technology
Western Michigan University

The following standards are for conference rooms on all Western Michigan University campuses. This document shall be used in connection with any consulting pertaining to conference room technology projects. Outside consultants shall use this standard and adhere to the equipment listed herein to prepare all written bid documentation.

Level 1: Small to medium general-use conference rooms.

- LED panel, 60 inch, 1920 x 1080
- LED wall mount
- Router
- Crestron control system (POE)
- Crestron DigitalMedia Transmitter/Receiver (input for HDMI and RGB)
- Crestron Flip-Top Power/Cable system
- One (1) Ethernet connection to router
- 4 AC outlets at back of LED
- 4 AC outlets for users

Level 2: Large size general-use conference room or Dean's conference room.

- LED panel, 80 inch, 1920 x 1080
- LED wall mount
- Crestron presentation system
- Crestron wireless touch panel
- Crestron DigitalMedia Transmitter/Receiver
- Router
- One (1) Ethernet connection to router
- Ceiling loud speakers
- Credenza with rack system
- Crestron Flip-Top Power/Cable system
- 4 AC outlets at back of LED
- 4 AC outlets for users

AV Component Specifications

1. LED panel

- A. Panel will be sized according to room size.
- B. Panel resolution should be 1920 x 1080 or greater.
- C. Extended warranty required for consumer grade panel.

2. Network Lines

- A. There shall be one (1) Cat-6 network line used, run to the router.
- B. In large conference rooms, one (1) Network line will run directly into the router in the credenza.

3. Crestron Programming

- A. Programming for any Crestron control devices in the conference room shall be done by certified Crestron Programmer.
- B. Touch Panel standards and programming will be provided by WMU.
- C. Review of programming shall be done during install.
- D. Programming will include Crestron's RoomView® and e-control pages.

4. Power Requirements

- A. There shall be a standard outlet box installed on the wall, in the location where the LCD mount will be placed.
- B. There shall be four power outlets available on the wall within 6 feet of the LCD panel for users.
- C. Multi-outlet surge protectors shall be used for equipment power and attached to the rack within the credenza (large room install only).

5. Asbestos

- A. In-wall speakers may be substituted where asbestos is present in ceiling.
- B. AC outlet placement may be relocated where asbestos is present.

6. Documentation from Installer

- A. Before installation completion, WMU and the installer shall provide the make, model and serial numbers for all equipment and in which rooms this equipment has been or will be installed.
- B. At least two weeks prior to the installation of equipment the MAC addresses shall be provided for the Crestron control units. WMU will then assign IP addresses to these units, and in turn give these IP addresses to the installer/programmer.

7. Security

- A. Security of panel and cables will be considered and installed.

Appendix A

Level 1 Conference Room Detail

Line #	Model #	Mfg.	Description	Qty
1	LC-60LEXXX	Sharp	Sharp 60-inch Aquos HD 1080p Smart LED TV	1
2	LTMU	Chief	Large tilt mount assembly	1
3	FT-TSC600-BALUM	Crestron	FlipTop [®] Touch Screen Control System, Brushed Aluminum	1
4	DM-TX-201-C	Crestron	DigitalMedia 8G+™ Transmitter 201	1
5	DM-RMC-100	Crestron	DigitalMedia [®] CAT Receiver & Room Controller 100	1
6	FTA-PWR-102	Crestron	FlipTop™ AC Power Outlet Module, Dual, US NEMA 5, Type B	2
7	Control 14 C/T	JBL	4" Co-Ax Ceiling Speaker	4
8	RV082	Cisco	8 port dual WAN VPN router	1
9	PDT-1015C-NS	Middle Atlantic	PD Thin, 1-15A, 10Out, Cord power	1
10	Integration	WMU - OIT	Misc. integration materials (cables, etc.)	-
11	Network	WMU - OIT	Network Installation	1
12	Electrical / Carpentry	WMU - FM	Electrical installation, Mount installation	-
13	Contingency	WMU - OIT		-

Level 2 Conference Room Detail

Line #	Model #	Mfg.	Description	Qty
1	LC-80LEXXXX	Sharp	Sharp 80-inch Aquos HD 1080p Smart LED TV	1
2	XTMU	Chief	Extra-large tilt mount assembly	1
3	DMPS3-300-C	Crestron	3-Series® DigitalMedia™ Presentation System 300	1
4	TPS-6X-B-T	Crestron	Isys® 5.7" Wireless Touch Screen, Black Textured	1
5	TPS-6X-FPB-T-Engraved	Crestron	Backlit Engravable Button Bezel Kit for TPS-6-B-T & TPS-6X-B-T, Matte Black	1
6	CEN-ERFGW-POE-PWE		Extended Range RF Wireless Gateway w/PoE Injector, includes PWE-4803RU	1
7	DM-TX-200-C-2G-W-T	Crestron	Wall Plate DigitalMedia 8G+™ Transmitter 200, White Textured	2
8	PW-4818DU	Crestron	90W PoDM Power Pack for DMPS	1
9	FT-600-B	Crestron	FlipTop™ Basic, Black Anodized	1
10	FTA-PWR-102	Crestron	FlipTop™ AC Power Outlet Module, Dual, US NEMA 5, Type B	2
11	Control 14 C/T	JBL	4" Co-Ax Ceiling Speaker	4
12	RV082	Cisco	8 port dual WAN VPN router	1
13	PD-915R	Middle Atlantic	9Out, 15A, Rack mount power	1
14	PDT-1015C-NS	Middle Atlantic	PD Thin, 1-15A, 10Out, Cord power	1
15	C5-FF31 1-3*	Middle Atlantic	Frame Top (Deep)	1
16	C5-KK31 1-3*	Middle Atlantic	Style: Klasik (Deep)	1
17	FIN-NA*	Middle Atlantic	Finish: Thermolaminate - Napa	1
18	PDT*	Middle Atlantic	Door Style: Smoke Plexiglas Door	3
19	C5-VENT3-BK*	Middle Atlantic	Vent Finish: Black	3
20	ACC-Knob1-CNT*	Middle Atlantic	Door Accent: Classic Nickel	3
21	ACC-Lock1-SNT*	Middle Atlantic	Door Locks: Satin Nickel	3
22	C5-SRSR12*	Middle Atlantic	Swivel Rack Insert	1
23	C5-SH-SYS31*	Middle Atlantic	Shelf Insert	2

24	C5-CG-T*	Middle Atlantic	Cable Grommet	1
25	Integration	WMU - OIT	Misc. integration materials (cables, etc.)	-
26	Network	WMU - OIT	Network Installation	1
27	Electrical / Carpentry	WMU - FM	Electrical installation, Mount installation	-
28	Contingency	WMU - OIT		-

* Denotes optional/customizable options