Summary of Crestron MC2W architectural specifications are as follows. Minimum control system requirements:

- Control System shall utilize a Motorola Coldfire processor at no less that 257 MIPS.
- Control System shall include [2] RS-232/422/485 Ports.
- Control System shall include [4] IR/Serial Ports.
- Control System shall include [4] Isolated Relay Ports
- Control System shall include [4] I/O Ports.
- Control System shall include [1] IR Receiver Port for optional IR-Receiver, which is compatible with Universal IR-Remotes that transmit standard RC-5 Codes.
- Control System shall include [1] Cresnet Port.
- Control System Processor shall utilize a real time, event driven, multi-tasking, multi-threaded operating system.
- High speed processor shall communicate directly with control ports and proprietary control network utilizing high-speed, parallel bus infrastructure. Control processors that communicate via a serial bus shall not be accepted.
- Control processor shall contain 36 MB of memory.
- Control System processor shall utilize a FAT32 file structure.
- Patent pending Network Analyzer to continuously monitor the integrity of the Cresnet network for wiring faults, marginal communication performance, network errors – all information is viewable.
- Support RS-485 token passing network with data communication for a minimum distance of 5000 feet.
- Allow proprietary network expansion via RS-232 ports, which can allow for high-speed network acceleration.
- Support a minimum of 253 proprietary network devices simultaneously.
- Control system shall support object-oriented logic based programming language and a C-like language programming language. Both programming types are supported to run simultaneously and integral to each other.
- Control system manufacture shall supply Windows-based graphical programming software for drag and drop object oriented programming for the control system operation.
- Control system manufacture shall provide Windows-based graphical programming software, which is self-documenting in that it generates a symbolic flow diagram printout from the system program.
- The control system shall support both 418 and 434 MHz 1-way/RF wireless communication modes, hosting various remote keypad and touchpanel options, via a built in antenna/receiver; control systems not supporting both 418 and 434 MHz RF-Modes, or requiring additional/external RF-Receivers shall not be accepted.

- The control system shall support a variety of other wireless communication modes, including one-way and two-way radio frequency and infrared transmission, via additional/optional receivers.