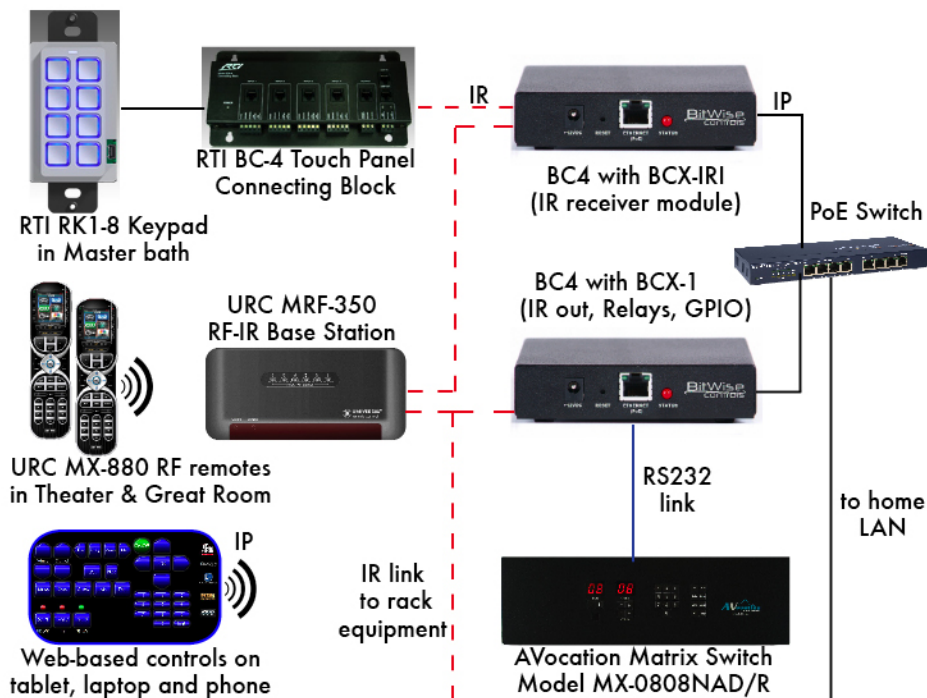# Whole-House AV
- the BitWise Controls way

The problem was a familiar one - deliver whole-house audio and video but on a sensible budget. The customer wanted to keep things relatively simple using remote controls in most rooms and a wall-mounted control point in the master bath. Using the BitWise Controls BC4 units and Project Editor software it was possible to pack in a lot of bang for the customer's buck.

Managing the rack - Using a BC4 chassis with BCX-1 module we had the perfect tool to handle both the matrix switch over RS232 and the the rest of the rack equipment over IR.The switch used was from AVocation because it offered built-in volume controls for each channel, allowing each zone's volume to be set by a macro in the BC4 independent of which control interface was used.

RTI RK1-8 Keypad in Master bath

RTI BC-4 Touch Panel Connecting Block

IR

BC4 with BCX-IRI (IR receiver module)

IP

PoE Switch

URC MRF-350 RF-IR Base Station

BC4 with BCX-1 (IR out, Relays, GPIO)

URC MX-880 RF remotes in Theater & Great Room

IP

Web-based controls on tablet, laptop and phone

IR link to rack equipment

RS232 link

to home LAN

AVocation Matrix Switch Model MX-0808NAD/R

Control interfaces – URC MX880 RF remotes were ideal for the theater and great room, with both communicating to an MRF350 unit in the rack. In the master bath an RTI keypad connected to their CB-4 unit. Finally a web interface was used to bring a tablet, laptop and iPhone into play. The MRF350 and CB-4 base-units both communicated with a second BC4 via an IR Reciever.

Integrating the front and back ends - The two BC4s were physically linked via a PoE switch which integrated them into the LAN. More importantly the Project Editor allowed macros for managing all of the customer's AV activities to be created and stored within the BC4s.

The end result is a complete system where the customer can select an activity with a single button press on a remote, wall panel or webpage and get entertainment when and where they want it. In the words of the client, they love 'how simple it is to use" without sacrificing tightness of overall integration.

BitWise controls