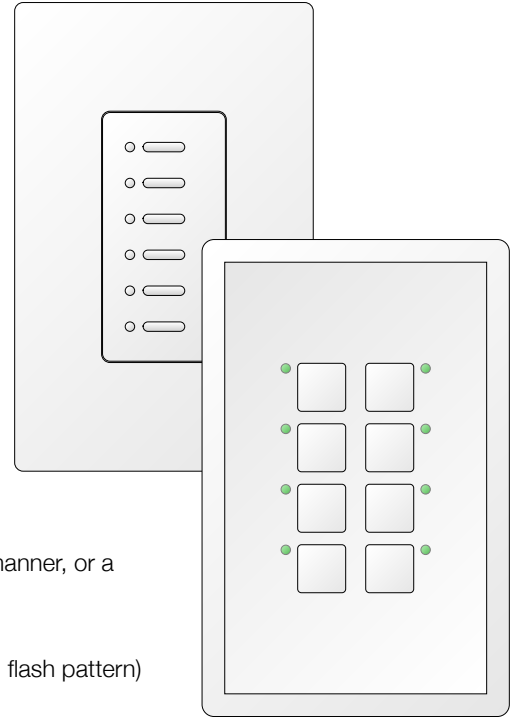


Introduction

The 2-Wire CueStation is designed to be a low-cost, high-performance button station that uses a simple 2-conductor network for linking together up to 10 stations from a single hub.

Use the ST-HUB CueStation Network Hub to power 2-Wire CueStations.

This document describes some of the technical specifications of the 2-Wire Stations as well as the required DIP Switch settings needed to configure each station.



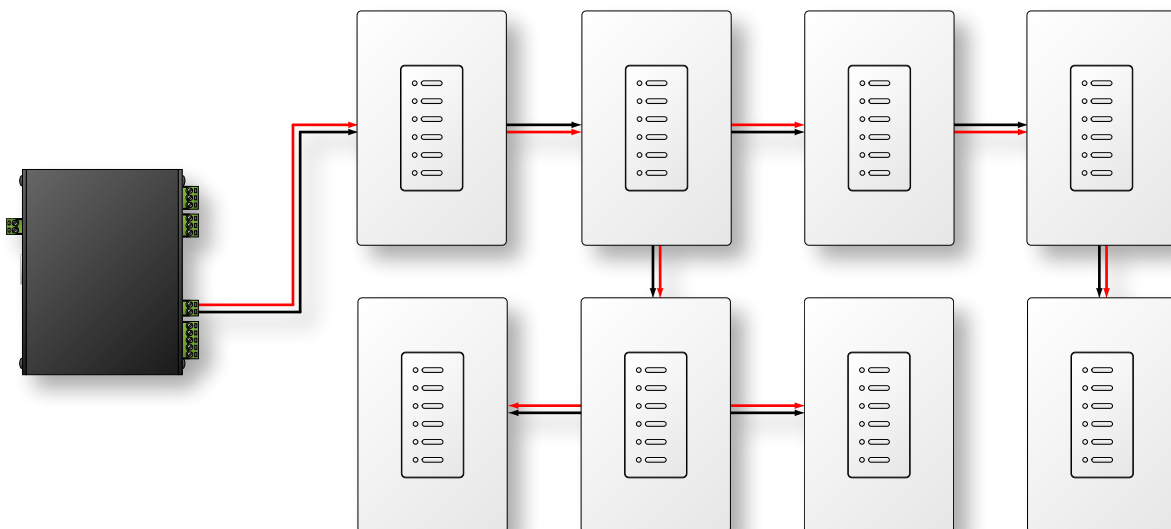
Specifications

- Only 2 conductors needed for each station
- Polarity free network does not require the conductors to be wired straight-through
- Topology free network allows stations to be wired in a "star" or "daisy-chained" manner, or a combination both
- Cable distance to farthest station is 500 feet (150m)
- Fully controllable RGB indicator LED for each button (includes color, intensity and flash pattern)
- Recommended cable type is 2-Conductor 18 AWG (Belden 9740 or similar)

Wiring

The 2-Wire CueStation Bus uses a 2-conductor 18 AWG cable (Belden 9740 or similar) to carry both power and data to and from each station location. The network is both topology free (meaning a random combination of "star" and "daisy-chain" connections may be used) and polarity free (meaning it does not matter if the conductors are reversed at any station).

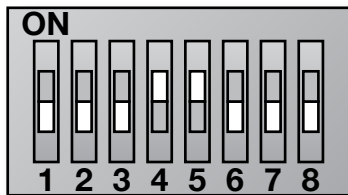
2-Wire Station Bus Wiring Example



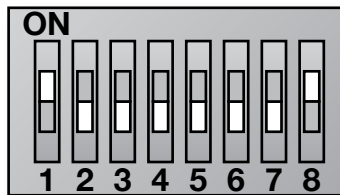
Configuring the Stations

Each station connected to the same Hub must be assigned a unique address from 1 to 50. Also, the number of physical buttons on the station must be selected. These assignments are made by setting DIP Switches on the back of the station.

View the DIP Switches so that the writing on the switches is upright. There are two banks of 8 switches. The bank of 8 on the left side are the option switches. The bank of 8 on the right side are the address switches.



Option Switches



Address Switches

Option Switches	1	2	3	4	5	6	7	8
Number of Buttons on Station								
1-Button Station			ON	OFF	OFF			
2-Button Station			OFF	ON	OFF			
3-Button Station			ON	ON	OFF			
4-Button Station			OFF	OFF	ON			
6-Button Station			OFF	ON	ON			
8-Button Station			OFF	OFF	OFF			
Reserved Switches Must Be OFF								
Reserved	OFF	OFF				OFF	OFF	OFF

Address Switches	1	2	3	4	5	6	7	8	Top Button
Address 1	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	1
Address 2	OFF	ON	OFF	OFF	OFF	OFF	OFF	ON	9
Address 3	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	17
Address 4	OFF	OFF	ON	OFF	OFF	OFF	OFF	ON	25
Address 5	ON	OFF	ON	OFF	OFF	OFF	OFF	ON	33
Address 6	OFF	ON	ON	OFF	OFF	OFF	OFF	ON	41
Address 7	ON	ON	ON	OFF	OFF	OFF	OFF	ON	49
Address 8	OFF	OFF	OFF	ON	OFF	OFF	OFF	ON	57
Address 9	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	65
Address 10	OFF	ON	OFF	ON	OFF	OFF	OFF	ON	73
Address 11	ON	ON	OFF	ON	OFF	OFF	OFF	ON	81
Address 12	OFF	OFF	ON	ON	OFF	OFF	OFF	ON	89
Address 13	ON	OFF	ON	ON	OFF	OFF	OFF	ON	97
Address 14	OFF	ON	ON	ON	OFF	OFF	OFF	ON	105
Address 15	ON	ON	ON	ON	OFF	OFF	OFF	ON	113
Address 16	OFF	OFF	OFF	OFF	ON	OFF	OFF	ON	121
Address 17	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	129
Address 18	OFF	ON	OFF	OFF	ON	OFF	OFF	ON	137
Address 19	ON	ON	OFF	OFF	ON	OFF	OFF	ON	145
Address 20	OFF	OFF	ON	OFF	ON	OFF	OFF	ON	153
Address 21	ON	OFF	ON	OFF	ON	OFF	OFF	ON	161
Address 22	OFF	ON	ON	OFF	ON	OFF	OFF	ON	169
Address 23	ON	ON	ON	OFF	ON	OFF	OFF	ON	177
Address 24	OFF	OFF	OFF	ON	ON	OFF	OFF	ON	185
Address 25	ON	OFF	OFF	ON	ON	OFF	OFF	ON	193

Address Switches	1	2	3	4	5	6	7	8	Top Button
Address 26	OFF	ON	OFF	ON	ON	OFF	OFF	ON	201
Address 27	ON	ON	OFF	ON	ON	OFF	OFF	ON	209
Address 28	OFF	OFF	ON	ON	ON	OFF	OFF	ON	217
Address 29	ON	OFF	ON	ON	ON	OFF	OFF	ON	225
Address 30	OFF	ON	ON	ON	ON	OFF	OFF	ON	233
Address 31	ON	ON	ON	ON	ON	OFF	OFF	ON	241
Address 32	OFF	OFF	OFF	OFF	OFF	ON	OFF	ON	249
Address 33	ON	OFF	OFF	OFF	OFF	ON	OFF	ON	257
Address 34	OFF	ON	OFF	OFF	OFF	ON	OFF	ON	265
Address 35	ON	ON	OFF	OFF	OFF	ON	OFF	ON	273
Address 36	OFF	OFF	ON	OFF	OFF	ON	OFF	ON	281
Address 37	ON	OFF	ON	OFF	OFF	ON	OFF	ON	289
Address 38	OFF	ON	ON	OFF	OFF	ON	OFF	ON	297
Address 39	ON	ON	ON	OFF	OFF	ON	OFF	ON	305
Address 40	OFF	OFF	OFF	ON	OFF	ON	OFF	ON	313
Address 41	ON	OFF	OFF	ON	OFF	ON	OFF	ON	321
Address 42	OFF	ON	OFF	ON	OFF	ON	OFF	ON	329
Address 43	ON	ON	OFF	ON	OFF	ON	OFF	ON	337
Address 44	OFF	OFF	ON	ON	OFF	ON	OFF	ON	345
Address 45	ON	OFF	ON	ON	OFF	ON	OFF	ON	353
Address 46	OFF	ON	ON	ON	OFF	ON	OFF	ON	361
Address 47	ON	ON	ON	ON	OFF	ON	OFF	ON	369
Address 48	OFF	OFF	OFF	OFF	ON	ON	OFF	ON	377
Address 49	ON	OFF	OFF	OFF	ON	ON	OFF	ON	385
Address 50	OFF	ON	OFF	OFF	ON	ON	OFF	ON	393