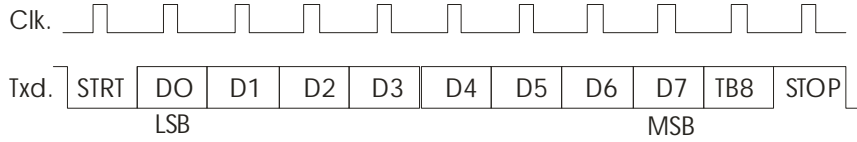


Hardware Protocol:

Hardware : SN75176 Transceiver (Texas) RS-485 Balanced
 Baud rate : 187.5 Khz. 11 bit frame UART



TB8 : True = Address
 False = Data

Software Protocol:

Address = 8 * (Unit DIP-switch address number - 1) + OFF

Effect	OFF	Legal Data
MSB: CYAN LSB: TIME	0	0..250, 0 = open 0..250, 0..25 sec
MSB: MAGENTA LSB: TIME	1	0..250, 0 = open 0..250, 0..25.0 sec
MSB: YELLOW LSB: TIME	2	0..250, 0 = open 0..250, 0..25.0 sec
MSB: Frost LSB: Frost Time	3	0..27, 0 = open 0..250, 0..25.0 sec
MSB: Pan MSB LSB: Pan LSB	4	0..255 128 = Neutral 0..127 15 bit, 440 deg.
MSB: Tilt MSB LSB: Tilt LSB	5	0..255 128 = Neutral 0..88 15 bit, 306 deg.
MSB: Pan Time LSB: <i>Free Channel</i>	6	0..250, 0..25.0 Sec, 0 : BO while moving.
MSB: Tilt Time LSB: <i>Free Channel</i>	7	0..250, 0..25.0 Sec, 0 : BO while moving.
MSB: COLOR LSB: TIME	8	0..160, 0 = open 40 = color 1 80 = color 2 120 = color 3 160 = color 4 0..250, 0..25.0 Sec, 0 : BO while moving.
MSB: GOBO	9	0..162, 0 = open 31 = gobo 1 58 = gobo 2 83 = gobo 3 106 = gobo 4 126 = gobo 5 162 = gobo 6

LSB: TIME		0..250, 0..25.0 Sec, 0 : BO while moving.
MSB: COLOR CONT. ROTATION	10	0..127 Fast->Slow 0 = Disable
LSB: GOBO CONT. ROTATION		0..127 Fast->Slow 0 = Disable
MSB: <i>Free Channel</i> LSB: <i>Free Channel</i>	11	
MSB: <i>Free Channel</i> LSB: <i>Free Channel</i>	12	
MSB: Dimmer LSB: Time	13	0..255, 0..100%, 255 : Default (Light Off) 0..250, 0..25.0 Sec
MSB: Offset fine tune value LSB: Offset fine tune effect select	14	1..255, 128 : Default (no offset) 10 : Dimmer Offset 11 : Cyan Offset 12 : Magenta Offset 13 : Yellow Offset 14 : Pan Offset 15 : Tilt Offset Cancel (confirm) for individual offsets: 60 : Cancel Dimmer Offset 61 : Cancel Cyan Offset 62 : Cancel Magenta Offset 63 : Cancel Yellow Offset 64 : Cancel Pan Offset 65 : Cancel Tilt Offset 125 : Cancel all offsets (confirm) 126 : Confirm 127 : Store (In non-volatile fixture memory). A cancel,confirm or store command will only take place with MSB set to 0.
MSB: Special Cmd. LSB: Strobe	15	<i>bit 0 (1) : Free</i> <i>bit 1 (2) : Free</i> <i>bit 2 (4) : Free</i> <i>bit 3 (8) : Free</i> bit 4 (16) : Lamp Power OFF bit 5 (32) : Lamp Power ON bit 6 (64) : Reset Fixture <i>bit 7 (128) : Free</i> 0..63 Fast->Slow 0 = Disable

Note : MSB refers to Most Significant Byte
LSB refers to Least Significant Byte