

## Centralite - (Individual Lighting Loads and Scenes)

**Centralite LiteJet and Elegance** are low voltage, centrally controlled, whole-house lighting products. All lights to be controlled are home run (high voltage) back through a dimmer/relay enclosure. This enclosure contains a processor board with an on-board RS232 serial port for interfacing with the M1XSP. Depending on the Centralite system selected, the M1XSP can support up to 192 individual light devices (loads) and up to 64 lighting scenes.

**Centralite StarLite and JetStream** are wireless lighting control systems. The M1XSP interfaces to the Centralite Master Interface which then controls wireless switches installed around the building. Up to 96 individual light devices (loads) and up to 64 lighting scenes can be controlled through the M1XSP.

**Note: JetStream support requires firmware version 30.x.x** which is currently only available upon request. Contact Elk for information. **On a Starlite Master Control Station DIP switch #7 must be set to ON.** This tells the StarLite MCS to emulate the LiteJet system, allowing the M1XSP to communicate to it just as it would the LiteJet or Elegance systems.

### Integration:

Integration with the M1 is accomplished by "mapping" the Centralite loads to M1 Lighting devices. For example: Centralite individual loads 1-192 are mapped to M1 Lighting devices 1-192. Centralite Scenes 1-64 are mapped to M1 Lighting devices 193-256. The attached chart shows the M1 Lighting devices and their corresponding Centralite Load/Scenes.

### Components required:

- An ELK-M1 or ELK-M1EZ8 Controller.
- One (1) ELK-M1XSP Serial Port Expander. NOTE: Firmware updates may be downloaded from the ELK M1 Dealer Web site.
- One (1) Centralite System with integrated processor board.
- One or more Centralite wall switches.

### Limitations:

- Button presses from a Centralite keypad have no direct integration with the M1. However, it could be possible to assign a button to a non physical (phantom) load and then use the status change of that load to cause an M1 action.
- Load status changes from Centralite to the M1 requires special firmware in both products. See paragraph titled "Load Status Communications". Even so, in many circumstances it may not be possible for the lighting status displayed by the M1 Controller to match the true status of the loads.

### Setting up the M1XSP and the M1 to communicate with Centralite

1. Install the ELK-M1XSP per the instructions on page 3. Be sure to enroll the device into the M1.
2. Connect the female end of the supplied 9-pin serial cable to the M1XSP and the male end to the 9-pin serial port on the Centralite processor board marked "RS232-2".
3. Set **MODE** Jumpers on the M1XSP to a value of 1 1110: **S4="1" (UP), S5="1" (UP), S6="1" (UP), S7="1" (UP), S8="0" (DN)**. NOTE: Some units do not have jumper S4.
4. Set the M1XSP Jumper **JP3="232"**. The position of BAUD jumpers S1,S2,S3 does not matter.
5. Power up all the devices.
6. Program the M1 Lighting device attributes utilizing the ElkRP software. Only the specific devices to be used for Centralite need to be programmed. For individual addresses program M1 Lighting devices: **1-192 "Format=Serial Expander" and "Type= Dimmer" (Type may also be programmed as "On/Off Switch" if the device isn't dimmable)**. For the scene addresses program M1 Lighting devices: **193-256 as "Format= Serial Expander", "Type=On/Off Switch"**.

When a M1 Light device is activated from a rule or from the M1 Keypad "Automation" menu, the corresponding device command will be sent from the M1XSP to the Centralite Processor.

### Load Status Communications:

To receive load status changes from Centralite requires firmware **ver 1.0.14 or later in the M1XSP** and **ver 5.5 or later in the Centralite LiteJet**. Turn ON dipswitch 6 on the LiteJet board but DO NOT program the load "send changes" option.

**Note: Version 5.5 or later of the Centralite firmware places a 1 second delay between each load change transmission. This means that multiple load changes can and will take several seconds to reach the M1. An ALL ON command could take well over a minute for all loads to report in.**

### Recap of Centralite Commands supported by M1:

Centralite commands sent by the M1XSP: ^Annn<cr>=Load ON, ^Bnnn<cr>=Load Off, ^Cnnn<cr>=Scene On, Dnnn<cr>=Scene Off, and ^Ennnlrr<cr>=Load, Level, & Ramp Rate. Where "nnn" represents the load or scene 001-256, "l" represents the dim Level 00-99, and "rr" represents the ramp rate 00-31.

## Centralite - (continued)

M1 Lighting Devices Mapped to Centralite											
ELK Light Device #	PLC (X-10) Ref.	Centralite	ELK Light Device #	PLC (X-10) Ref.	Centralite	ELK Light Device #	PLC (X-10) Ref.	Centralite	ELK Light Device #	PLC (X-10) Ref.	Centralite
											The PLC column is for reference only.
1	A01	Load 1	65	E01	Load 65	129	I01	Load 129	193	M01	Scene 01 All On
2	A02	Load 2	66	E02	Load 66	130	I02	Load 130	194	M02	Scene 02 All Off
3	A03	Load 3	67	E03	Load 67	131	I03	Load 131	195	M03	Scene 03 Vacation
4	A04	Load 4	68	E04	Load 68	132	I04	Load 132	196	M04	Scene 04 Alarm Flash
5	A05	Load 5	69	E05	Load 69	133	I05	Load 133	197	M05	Scene 05 Pwr-up Override
6	A06	Load 6	70	E06	Load 70	134	I06	Load 134	198	M06	Scene 06
7	A07	Load 7	71	E07	Load 71	135	I07	Load 135	199	M07	Scene 07
8	A08	Load 8	72	E08	Load 72	136	I08	Load 136	200	M08	Scene 08
9	A09	Load 9	73	E09	Load 73	137	I09	Load 137	201	M09	Scene 09
10	A10	Load 10	74	E10	Load 74	138	I10	Load 138	202	M10	Scene 10
11	A11	Load 11	75	E11	Load 75	139	I11	Load 139	203	M11	Scene 11
12	A12	Load 12	76	E12	Load 76	140	I12	Load 140	204	M12	Scene 12
13	A13	Load 13	77	E13	Load 77	141	I13	Load 141	205	M13	Scene 13
14	A14	Load 14	78	E14	Load 78	142	I14	Load 142	206	M14	Scene 14
15	A15	Load 15	79	E15	Load 79	143	I15	Load 143	207	M15	Scene 15
16	A16	Load 16	80	E16	Load 80	144	I16	Load 144	208	M16	Scene 16
17	B01	Load 17	81	F01	Load 81	145	J01	Load 145	209	N01	Scene 17
18	B02	Load 18	82	F02	Load 82	146	J02	Load 146	210	N02	Scene 18
19	B03	Load 19	83	F03	Load 83	147	J03	Load 147	211	N03	Scene 19
20	B04	Load 20	84	F04	Load 84	148	J04	Load 148	212	N04	Scene 20
21	B05	Load 21	85	F05	Load 85	149	J05	Load 149	213	N05	Scene 21
22	B06	Load 22	86	F06	Load 86	150	J06	Load 150	214	N06	Scene 22
23	B07	Load 23	87	F07	Load 87	151	J07	Load 151	215	N07	Scene 23
24	B08	Load 24	88	F08	Load 88	152	J08	Load 152	216	N08	Scene 24
25	B09	Load 25	89	F09	Load 89	153	J09	Load 153	217	N09	Scene 25
26	B10	Load 26	90	F10	Load 90	154	J10	Load 154	218	N10	Scene 26
27	B11	Load 27	91	F11	Load 91	155	J11	Load 155	219	N11	Scene 27
28	B12	Load 28	92	F12	Load 92	156	J12	Load 156	220	N12	Scene 28
29	B13	Load 29	93	F13	Load 93	157	J13	Load 157	221	N13	Scene 29
30	B14	Load 30	94	F14	Load 94	158	J14	Load 158	222	N14	Scene 30
31	B15	Load 31	95	F15	Load 95	159	J15	Load 159	223	N15	Scene 31
32	B16	Load 32	96	F16	Load 96	160	J16	Load 160	224	N16	Scene 32
33	C01	Load 33	97	G01	Load 97	161	K01	Load 161	225	O01	Scene 33
34	C02	Load 34	98	G02	Load 98	162	K02	Load 162	226	O02	Scene 34
35	C03	Load 35	99	G03	Load 99	163	K03	Load 163	227	O03	Scene 35
36	C04	Load 36	100	G04	Load 100	164	K04	Load 164	228	O04	Scene 36
37	C05	Load 37	101	G05	Load 101	165	K05	Load 165	229	O05	Scene 37
38	C06	Load 38	102	G06	Load 102	166	K06	Load 166	230	O06	Scene 38
39	C07	Load 39	103	G07	Load 103	167	K07	Load 167	231	O07	Scene 39
40	C08	Load 40	104	G08	Load 104	168	K08	Load 168	232	O08	Scene 40
41	C09	Load 41	105	G09	Load 105	169	K09	Load 169	233	O09	Scene 41
42	C10	Load 42	106	G10	Load 106	170	K10	Load 170	234	O10	Scene 42
43	C11	Load 43	107	G11	Load 107	171	K11	Load 171	235	O11	Scene 43
44	C12	Load 44	108	G12	Load 108	172	K12	Load 172	236	O12	Scene 44
45	C13	Load 45	109	G13	Load 109	173	K13	Load 173	237	O13	Scene 45
46	C14	Load 46	110	G14	Load 110	174	K14	Load 174	238	O14	Scene 46
47	C15	Load 47	111	G15	Load 111	175	K15	Load 175	239	O15	Scene 47
48	C16	Load 48	112	G16	Load 112	176	K16	Load 176	240	O16	Scene 48
49	D01	Load 49	113	H01	Load 113	177	L01	Load 177	241	P01	Scene 49
50	D02	Load 50	114	H02	Load 114	178	L02	Load 178	242	P02	Scene 50
51	D03	Load 51	115	H03	Load 115	179	L03	Load 179	243	P03	Scene 51
52	D04	Load 52	116	H04	Load 116	180	L04	Load 180	244	P04	Scene 52
53	D05	Load 53	117	H05	Load 117	181	L05	Load 181	245	P05	Scene 53
54	D06	Load 54	118	H06	Load 118	182	L06	Load 182	246	P06	Scene 54
55	D07	Load 55	119	H07	Load 119	183	L07	Load 183	247	P07	Scene 55
56	D08	Load 56	120	H08	Load 120	184	L08	Load 184	248	P08	Scene 56
57	D09	Load 57	121	H09	Load 121	185	L09	Load 185	249	P09	Scene 57
58	D10	Load 58	122	H10	Load 122	186	L10	Load 186	250	P10	Scene 58
59	D11	Load 59	123	H11	Load 123	187	L11	Load 187	251	P11	Scene 59
60	D12	Load 60	124	H12	Load 124	188	L12	Load 188	252	P12	Scene 60
61	D13	Load 61	125	H13	Load 125	189	L13	Load 189	253	P13	Scene 61
62	D14	Load 62	126	H14	Load 126	190	L14	Load 190	254	P14	Scene 62
63	D15	Load 63	127	H15	Load 127	191	L15	Load 191	255	P15	Scene 63
64	D16	Load 64	128	H16	Load 128	192	L16	Load 192	256	P16	Scene 64