LightLEEDer Voice DTMF Add-on Gateway
Technical Bulletin

Overview

The LightLEEDer Voice DTMF Gateway is an optional add-on module that can be added to an Advanced Network Controller. The module provides status and control of relays across the network through voice prompts and DTMF signals from any telephone. The module provides network wide control of individual relays, LightLEEDer Groups, and LightLEEDer Presets. To limit access, a 4 digit numerical password can be set for security into the system.

Hardware Installation

The voice DTMF gateway module needs to reside in the LightLEEDer panel with the Advanced Network Controller. Install the module in the panel on the push-on standoffs provided near the controller. Connect the provided keyed ribbon cable between the module and the add-on module port 4 (marked EP4) on the Advanced Network Controller. See Figure 1

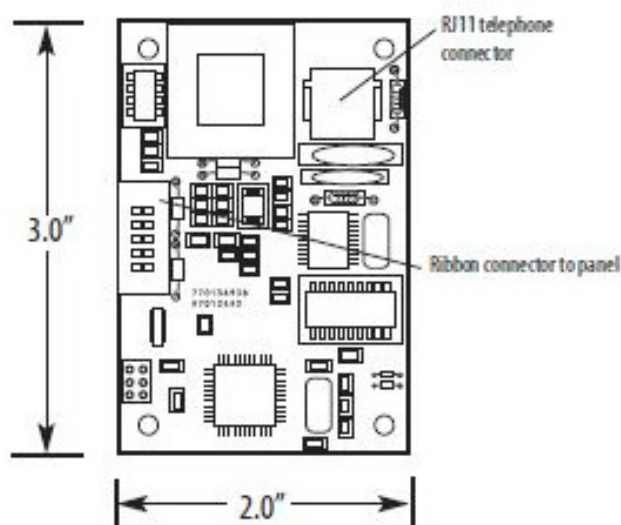Connect an analog telephone line to the RJ11 jack located on the module.

Figure 1 Voice DTMF Module

System Configuration

1. From the home screen of the Advanced Network Controller, press ▶ EDIT
2. Press ▼ 3 times to scroll down
3. Press ▶ OTHER DEVICES
4. Press ▶ ADD-ON MODULE 4
5. Press ▲ or ▼ to select the VOICE/DTMF option
6. Press ▶ EDIT to change the access code
7. Press ▲ or ▼ to select the access code number, then ▶ to scroll. Press ▶ CLEAR CODE to remove setting
8. Press HOME to exit

Voice Prompts

When you dial in to the gateway, if you have a password set, you will be prompted for the 4 digit code followed by the # key to enter. Once in, you will hear the following voice prompts:

For relay status and control press 1
For group control press 2
For presets press 3
To repeat this menu press*
To end this call press #

Press 1 for Relay Status and Control

From the main menu voice prompt press 1
Enter the relay number code followed by the # key.

Relay X is Off, press 1 to turn On
Relay X is On, press 2 to turn Off

Note: Due to the possibility of large numbers of relays in the system, individual relays are coded as shown in the following. Node numbers must be converted from a Hex value to a decimal value, see table 1 for a partial conversion list.

(Node number x 64)+ relay number

Example: Node 1C (decimal 28), Relay 17 is code (28 x 64) + 17 = 1809

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Hexadecimal Conversion Chart

No.	Hex	No.	Hex	No.	Hex	No.	Hex
0	00	32	20	65	41	97	61
1	01	34	22	66	42	98	62
2	02	35	23	67	43	99	63
3	03	36	24	68	44	100	64
4	04	37	25	69	45	101	65
5	05	38	26	70	46	102	66
6	06	39	27	71	47	103	67
7	07	40	28	72	48	104	68
8	08	41	29	73	49	105	69
9	09	42	2A	74	4A	106	6A
10	0A	43	2B	75	4B	107	6B
11	0B	44	2C	76	4C	108	6C
12	0C	45	2D	77	4D	109	6D
13	0D	46	2E	78	4E	110	6E
14	0E	47	2F	79	4F	111	6F
15	0F	48	30	80	50	112	70
16	10	49	31	81	51	113	71
17	11	50	32	82	52	114	72
18	12	51	33	83	53	115	73
19	13	52	34	84	54	116	74
20	14	53	35	85	55	117	75
21	15	54	36	86	56	118	76
22	16	55	37	87	57	119	77
23	17	56	38	88	58	120	78
24	18	57	39	89	59	121	79
25	19	58	3A	90	5A	122	7A
26	1A	59	3B	91	5B	123	7B
27	1B	60	3C	92	5C	124	7C
28	1C	61	3D	93	5D	125	7D
29	1D	62	3E	94	5E	126	7E
30	1E	63	3F	95	5F	127	7F
31	1F	64	40	96	60	128	80

Table 1 Hex to Decimal Conversion

Press 2 for Group Control

From the main menu voice prompt press 2
Enter the group number followed the # key (enter group).
Group X is Off, press 1 to turn On
Group X is On, press 2 to turn Off

Press 3 for Presets

From the main menu voice prompt press 3
Enter the preset number followed the # key to set

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