

LUMIN Network Music Player network control protocol

LUMIN Network Music Player supports OpenHome protocol for full playlist control and playback control.

Since firmware 7.0 it also supports an alternative and simpler network protocol for a subset of playback control functions.

IP address of a LUMIN Network Music Player can be determined by two methods:

1. Fixed by router DHCP reserved IP address allocation table according to the MAC address of the LUMIN Network Music Player
2. UPnP discovery

Network Protocol for sending commands to LUMIN Network Music Player:

Send a 16-byte UDP packet to the IP address, port 23456.

For example, the UDP packet for a STANDBY command is:

```
0x55, 0x00, 0x00, 0x40,  
0x00, 0x08, 0x00, 0x04,  
0x00, 0x04, 0x00, 0xd8,  
0x2a, <0x70, 0x8f>, 0xaa
```

Replace the two bytes in < > with the codes below for other commands.

```
21 de = PLAY  
22 dd = PAUSE  
27 d8 = PREVIOUS  
28 d7 = NEXT  
14 eb = VOL PLUS  
15 ea = VOL MINUS  
18 e7 = MUTE  
4e b1 = UNMUTE  
32 cd = REPEAT ON  
34 cb = REPEAT OFF  
33 cc = SHUFFLE ON  
4f b0 = SHUFFLE OFF  
70 8f = STANDBY  
71 8e = WAKE UP
```

iOS LUMIN app also support return to previous app if called by another app via AppURL. The format is:

<lumincontroller://ReturnToApp?DisplayName=xxxx&AppURL=yyyy://>

xxxx - text string to display when press the return button
yyyy - openurl path of return app