



## HelloDevice Lite Series LS100

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### Quick Start Guide

## 1. Connection

1) Hook up the power to the HelloDevice LS100.

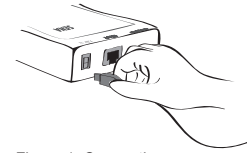


Figure 1. Connecting power

2) Hook up the Ethernet cable to the RJ45 connector of the HelloDevice LS100 with your hub or switch.

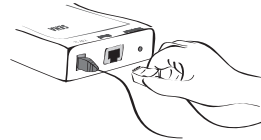


Figure 2. Connecting Ethernet cable

3) Hook up the RS232 serial cable between the HelloDevice LS100 and your serial device.  
(See Table 1 for pin assignments)

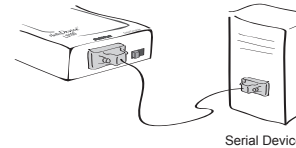
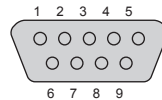


Figure 3. Connecting serial device

4) Confirm the Power LED lights up.

5) Confirm the Link LED lights up and Act LED is blinking.



Pin	Description
1	
2	Rx
3	Tx
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	

Table1. DB9 Pin assignments

## 2. Log-in to serial console

1) Remove the RS232 serial cable between your serial device and the serial port of the HelloDevice LS100.

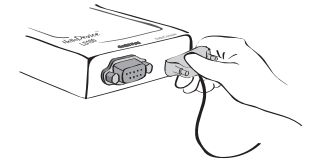


Figure 4. Connecting console cable

2) Connect the RS232 serial cable between your computer and the serial port of the HelloDevice LS100.

3) Slide Data/Console switch to the Console side.

4) Run a terminal emulation program such as HyperTerminal and set up the serial configuration parameters as follows:  
Baud rate = 9600, Data bits = 8, Parity = None,  
Stop bits = 1, Flow control = None

5) Press ENTER key at the terminal emulation program.

6) Enter the user name and password. Factory default settings of the user name and password are both admin.

7) To find command usage, type 'help' then press ENTER.

```
login: admin
password: ****
Type 'help' to get command usages
>
```

Figure 5. Login to console

## 3. Assign IP address

Factory default IP mode setting of the LS100 is DHCP. If you are using DHCP servers for your network environments, skip this chapter.

1) You can find 'set' command usage using 'help + group' command, where, group = 'ip', 'host', 'serial' or 'admin'. Type 'help ip' to get 'set ip' command usage.

```

> help ip
set ip ipmode par1 par2 ...
- ipmode: static=Static IP / dhcp=DHCP / pppoe=PPPoE
- parameters:
if ipmode = static,
    par1 = IP address,
    par2 = subnet mask,
    par3 = gateway
if ipmode = dhcp,
    no parameters required
if ipmode = pppoe,
    par1 = PPPoE username,
    par2 = PPPoE password
>

```

Figure 6. Help for IP configuration command

- 2) At the command prompt type command as "**set ip static ip\_address subnet\_mask gateway**", where, ip\_address = LS100 IP address to assign, subnet\_mask = Valid subnet mask, gateway = IP address of the gateway.  
To check if configuration is set correctly, type 'get ip' to verify that IP configuration is correct.

```

> set ip static 192.168.1.100 255.255.255.0 192.168.1.1
OK
> get ip
IP mode: static
IP address: 192.168.1.100
Subnet_mask: 255.255.255.0
Gateway: 192.168.1.1
>

```

Figure 7. Setting and getting IP configuration parameters

## 4. Host Mode Configuration

Factory default host mode is a TCP server mode and listening port of 6001. To change host mode, use command as below.  
Figure 8 shows TCP client mode setting example.

```

set host hostmode par1 par2 ...
where,
hostmode: tcps=TCP server / tcpc=TCP client / tcpsc=TCP server & client
parameters:
if hostmode = tcps,
    par1 = listening TCP port, par2 = inactivity timeout (sec)
if hostmode = tcpc,
    par1 = destination IP address, par2 = destination TCP port,
    par3 = cyclic connection interval (min), par4 = inactivity timeout (sec)
if hostmode = tcpsc,
    par1 = listening TCP port, par2 = destination IP address, par3 =
    destination TCP port,
    par4 = cyclic connection interval (min), par5 = inactivity timeout (sec)
* set cyclic connection interval to 0 not to use cyclic connection
* set inactivity timeout to 0 for unlimited timeout

```

```

> set host tcpc 192.168.1.200 7001 10 300
OK
> get host
Host_mode: tcpc
Destination_IP: 192.168.1.200
Destination_port: 7001
Cyclic_connection_interval(min): 10
Inactivity_timeout(sec): 300
>

```

Figure 8. TCP client mode configuration

## 5. Serial Port Configuration

To change serial port configuration parameters, use command as below.  
Figure 9 shows serial port configuration example.

```

set serial baudrate flow_control dtr_option dsr_option interchar_timeout(ms)
where,
baudrate: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200
flow_control: n=none / h=hardware
dtr_option: h=always high / l=always low / s=show tcp connection
dsr_option: n=none / a=accept only by high / o=open,close TCP connection
interchar_timeout: inter-character timeout value (ms)

```

```

> set serial 9600 n h n 10
OK
> get serial
Baudrate: 9600
Flow_control: None
DTR_option: Always_high
DSR_option: None
Interchar_timeout(ms): 10
>

```

Figure 9. Serial port configuration

## 6. Apply changes

- 1) Save changed values using 'save' command.
- 2) Reboot the HelloDevice LS100 using 'reboot' command.
- 3) Slide Console/Data switch to the Data side.
- 4) Remove the RS232 serial cable between your computer and the serial port of the HelloDevice LS100.
- 5) Connect the RS232 serial cable between your serial device and the serial port of the HelloDevice LS100

```

> save
OK
> reboot

```

Figure 10. Save and reboot command to apply changes

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# Quick Start Guide

## LS100W

HelloDevice Lite Series



## Pin-out & Cabling

	Pin	Signal
RS232 DB9 Pin-out	1	-
	2	RxD
	3	TxD
	4	DTR
	5	GND
	6	DSR
	7	RTS
	8	CTS
	9	-

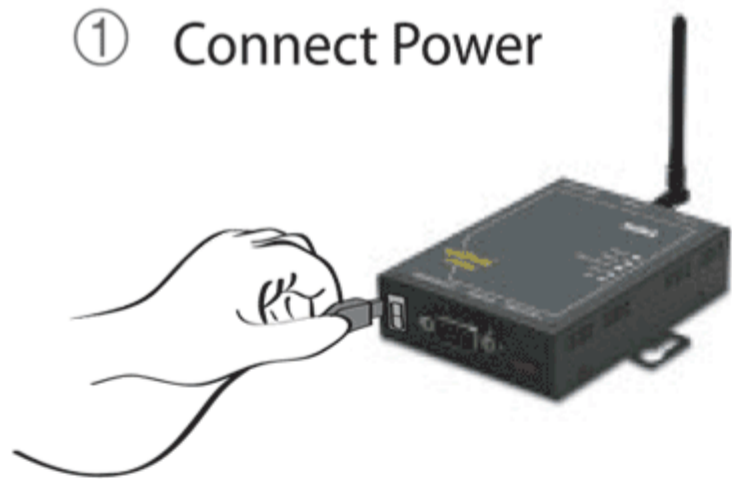
DB9 Male serial port pin-out for configuration and serial data communication

LS100W		Serial Device
3	TxD	RxD 2
2	RxD	TxD 3
7	RTS	CTS 8
8	CTS	RTS 7
4	DTR	DSR 6
6	DSR	DTR 4
5	GND	GND 5

User can use serial data cable included in the product package for connecting host PC or serial device.

## Connection

### ① Connect Power



### ② Connect Wireless LAN network

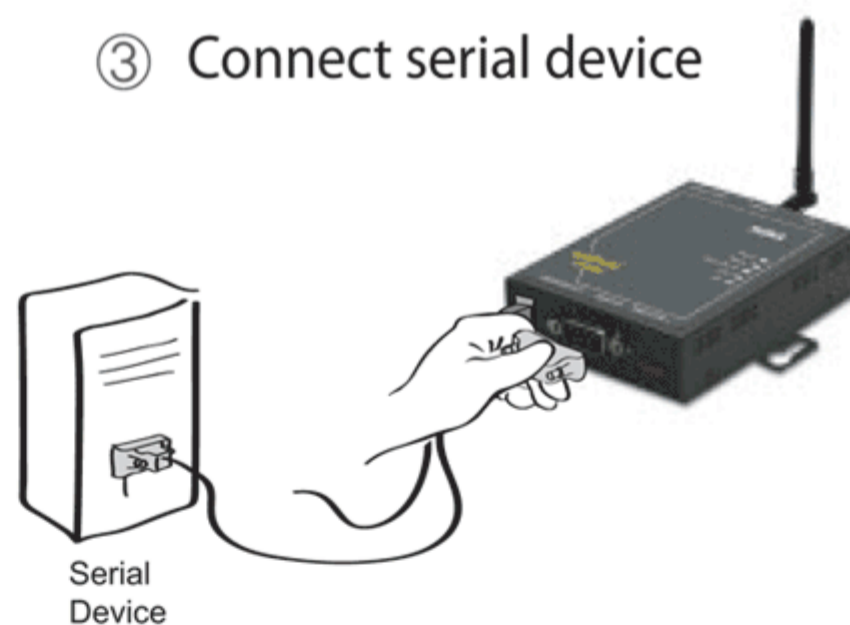
Users must make sure that Wireless LAN access point (AP) is installed.

The factory default SSID is "Default". Users should configure proper SSID to LS100W.

When powered up, LS100W automatically connects to the AP with the pre-configured SSID.

For more details, refer to the User Manual from CD or Sena web site at [www.sena.com](http://www.sena.com)

### ③ Connect serial device



## Configuration

User can choose one of the following processes

Default Log-in ID/Password is admin / admin.

#### 1. Configuration using the Hyper terminal or Telnet

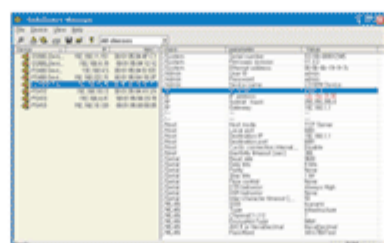


Connect to host PC. Then, slide Data/Console switch to the Console side.

Set up the serial configuration parameters of the terminal emulation program as follows:

9600 Baud rate / 8 Data bits / None Parity / 1 Stop bits / No Hardware flow control

#### 2. Configuration using the HelloDevice manager



HelloDevice Manager and User Manual are available for download from CD or Sena website at <http://www.sena.com/support/downloads/>.

For more information, refer to the user manual.

Visit us at [www.sena.com](http://www.sena.com)

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