



**TELETRONICS**  
INTERNATIONAL INC.

*Focusing On Your Needs*



# **Teletronics EZPlatform® Plus AP/Hotspot/Repeater User Manual**

2014.5

Version 1.0.0.5

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## 1. Product Overview

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### 1.1 Overview

---

Teletronics' EZPlatform<sup>®</sup> Plus AP/Hotspot/Repeater is designed for high-power access point, hotspot and repeater applications. A powerful end-to-end system for a wireless Internet network can be built by integrating the EZPlatform<sup>®</sup> Plus with Teletronics TT<sup>®</sup> subscriber units and other radios. The simplicity of use of the EZPlatform<sup>®</sup> Plus allows operators to quickly bring service to their customers, and with its two serial ports two Ethernet and 2 USB ports the unit can easily incorporate GPS, GPRS, RFID, VoIP, 3G/4G network, surveillance cameras, field meters, motion sensors and data networks for multiple industrial and commercial applications. The EZPlatform<sup>®</sup> Plus is available in single or dual radio configuration, support 2.4 GHz or 5.8 GHz Combanation radio cards at 2T2R/2T3R/4T4R wireless network.

### 1.2 Features and Benefits

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#### Point-to-Point & Point-to-Multi Point Support

Point-to-Point and Point-to-Multi Point communication between different buildings enables you to bridge wireless clients that are kilometers apart while unifying the networks.

#### Virtual AP (Multiple SSID)

Virtual AP implements mSSID (Multi-SSID) This allows a single wireless card to be set up with multiple virtual AP connections with different SSIDs or BSSID (Basic Service Set Identifier) and security modes.

#### Highly Secured Wireless Network

The access point supports the highest available wireless security standard: IEEE802.11i compliant. The access point also supports IEEE 802.1x for secure and centralized user-based authentication. Wireless clients are thus required to authenticate through highly

secure methods like EAP-TTLS and EAP-PEAP, in order to obtain access to the network.

### EzManager™ Utility

The exclusive EzManager utility allows users to access the user-friendly Web configuration interface of the access point without having to change the TCP/IP setup of the workstation.

### Telnet

Telnet allows a computer to remotely connect to the access point CLI (Command Line Interface) for control and monitoring.

### SSH

SSH (Secure Shell Host) establishes a secure host connection to the access point CLI for control and monitoring.

## 1.3 Operation Modes and Connection Examples

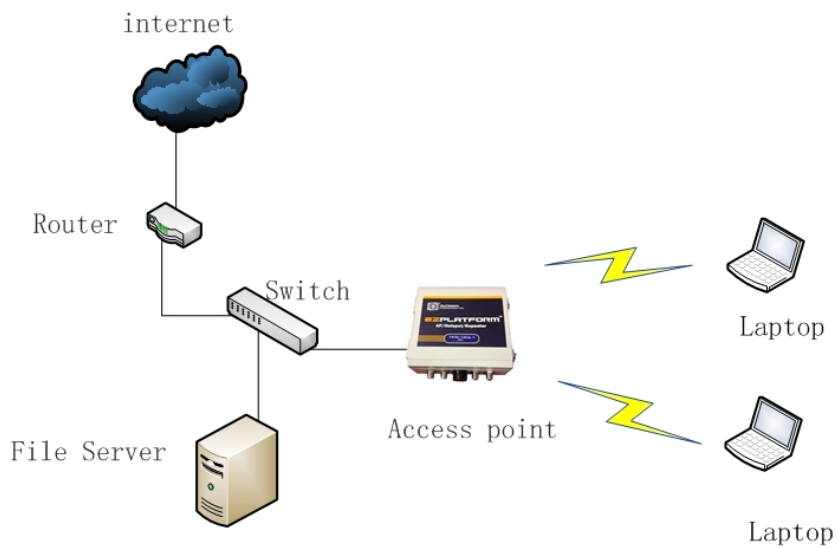
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### 1.3.1 Access Point and Access Point WDS Mode

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The Access Point Mode is the default mode of the device. It enables the bridging of wireless clients to wired network infrastructure and enables transparent access and communication with each other.

The illustration below shows a typical resources sharing application example using this device. The wireless users are able to access the file server connected to the switch, through the access point in Access Point Mode.



### 1.3.2 Access Point WDS Mode

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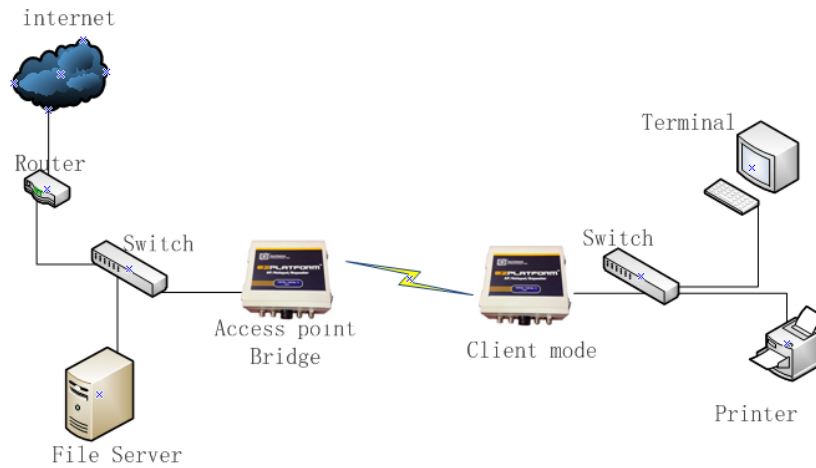
This mode is generally used for point-to-point or point-to-multi-point connections. It is mainly used with Station WDS to build the point and multi-point connections.

### 1.3.3 Station Mode

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In Station mode, the device acts as a wireless client. When connected to an access point, it creates a network link between the Ethernet network connected at this client device and the wireless Ethernet network connected at the access point.

In this example, the workgroup PCs on the Ethernet network connected to the Station device can access the printer across the wireless connection to the access point where the printer is connected.



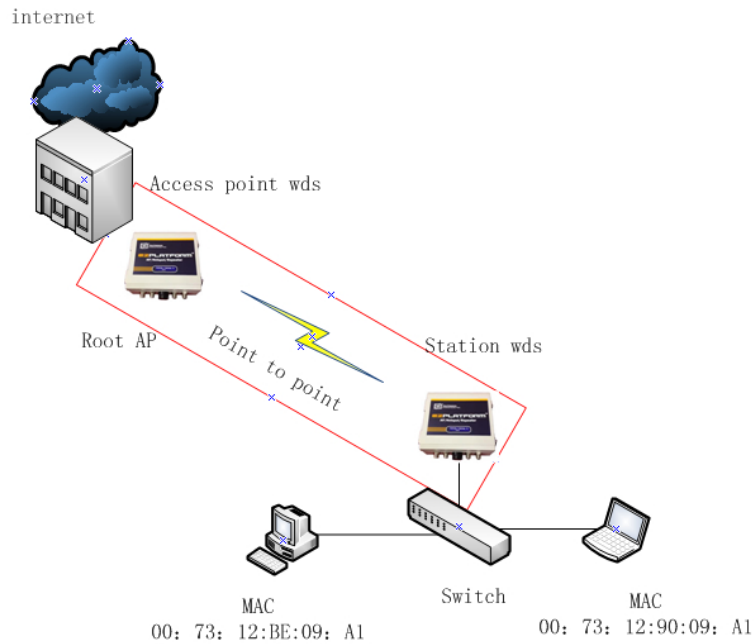
### 1.3.4 Station WDS Mode

Station WDS mode is similar to Station mode. The difference is Station WDS must connect to access point configured to Access Point WDS (or RootAP) mode.

Station WDS is mainly use for point-to-point connection between 2 buildings or locations as far as several kilometer away.

Point-to-Point	Point-to-MultiPoint
An access point setup as Access Point WDS (or RootAP) and other as Station WDS (Transparent Client).	An access point setup as Access Point WDS (or RootAP) and several other devices as Station WDS (or Transparent Client).

This mode is generally used for outdoor connections over long distances, or for indoor connections between local networks.



## 1.4 Specifications

### Hardware Specifications

Ethernet	IEEE 802.3af 100BASE-T/1G BASE-TX with autonegotiation
Networking	Bridging mode, NAT gateway, static routing. DHCP client, DHCP server. VLAN, IEEE 802.1Q, SSID-based tagging. PPPoE, DDNS, STP, QoS, IPv6
Wireless	802.11a/b/g/n (2.4/5.8 GHz), turbo mode. Four SSIDs per interface, AP/Station mode, WDS. WEP, WPA, WPA2 encryption. Adjustable RF TX power and data rate. Hotspot: RADIUS authentication
Management	HTTP/HTTPS web configuration interface, TELNET. SNMPv2, remote syslog, local event log. Bandwidth control with upload/download rates. Configuration backup and restore, web-based firmware upgrade. Serial port rescue console, EZManager support
Security	IP address, MAC address and SSID filtering Firewall, 802.1X
Operating System	Linux, 2.6.x kernel

## Hardware Specifications

CPU	Atheros AR7161 network processor, 800 MHz
Memory	64 MB DDR SDRAM (max 128MB optional )
NOR Flash	8 MB (max 16MB optional)
Ethernet	2 X 10/100/1000 T ( with Auto MDI / MDIX)
Serial	TTL RS-232 port
Wireless interface	Two Mini PCI slots
LED indicators	7 LEDs Power, WLAN1, LAN1, 4 RF strength
Power	PoE (24-48 V DC Jack), 802.11 af PoE (48V-56V)
Power consumption	4 W
Dimensions	8 x 7.5 x 2.5 in
Weight	7 lb
Temperature	-20 °C to +70 °C, non-condensing
Enclosure	NEMA 4, ruggedized and weatherproof
Mounting	Wall mount, pole mount

## 2. Hardware Setup and Status LEDs

### 2.1 Hardware Setup

Figure 4 shows how to connect the EZPlatform<sup>®</sup> Plus

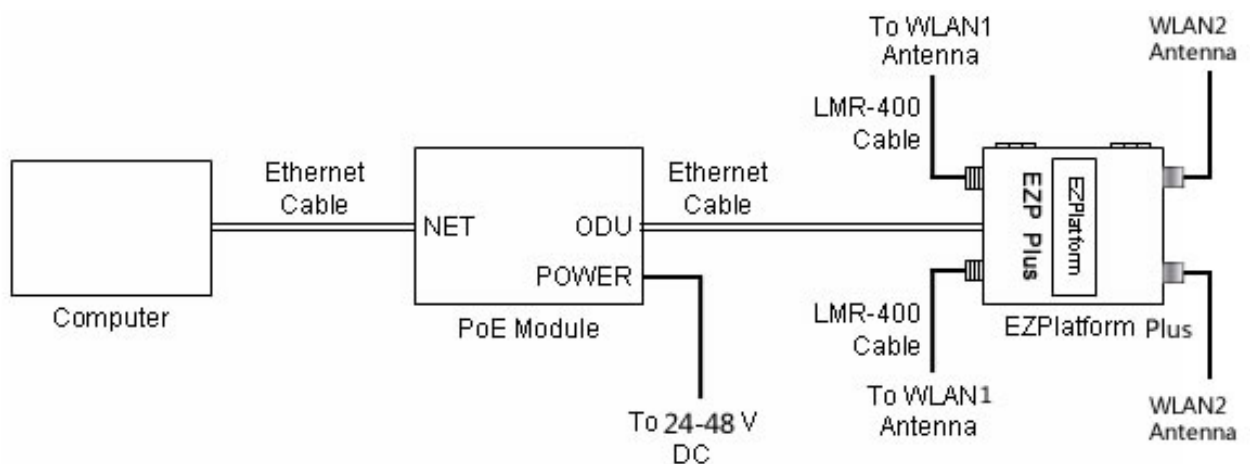


Figure 4. Network and power connections

The purpose of this setup is to connect the EZPlatform<sup>®</sup> so that it can be configured with a computer via the web interface of the EZPlatform<sup>®</sup>. The power over Ethernet (PoE) module



allows you to send/receive data and power the EZPlatform<sup>®</sup> with a single cable. When connecting the antennas, care must be taken so that the antennas are properly mounted to avoid mutual interference, especially if both wireless interfaces will be operated in the same 802.11 mode.

WLAN1 and WLAN2 are the fixed designations for the two wireless interfaces.

WLAN1 is wired to the antenna port that is closer to the hinges of the NEMA 4 enclosure;

WLAN2 is wired to the antenna port farther from the hinges of the enclosure.

## Setup Requirements

- ✓ CAT5/5e Networking Cable.
- ✓ At least one computer installed with a web browser and a wired or wireless network interface adapter.
- ✓ All network nodes installed with TCP/IP and properly configured IP address parameters.

## 2.2 Status LEDs

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The behavior of the LEDs mounted on the enclosure is explained in the following table.

LED	Position	Status	Interpretation
Power	Left	Solid on	Power on
		Off	Power off
Ethernet	Center	On	Ethernet link
		Off	No Ethernet connection
WLAN1	Center	Solid on	Associated to an AP (in SU mode) Solid on (in AP mode)
		Off	Radio card not detected / wireless off
WLAN2	Center	Solid on	Associated to an AP (in SU mode) Solid on (in AP mode)

## 3. EZManager

---

To help you administer your network easily and effectively, Teletronics offers free network administration software called EZManager, which is compatible with virtually all Teletronics

radios, including the TT™ series, the TTX™ series, the SLAB™ series, the EZBridge™ series and the EZPlatform® series. A copy of EZManager can be downloaded from Teletronics' website, <http://www.teletronics.com/Firmware.html>

EZManager does not require installation: you can just uncompress the download file and execute the file called 'EZManager.exe'.

The main interface of EZManager is shown in Figure 26.

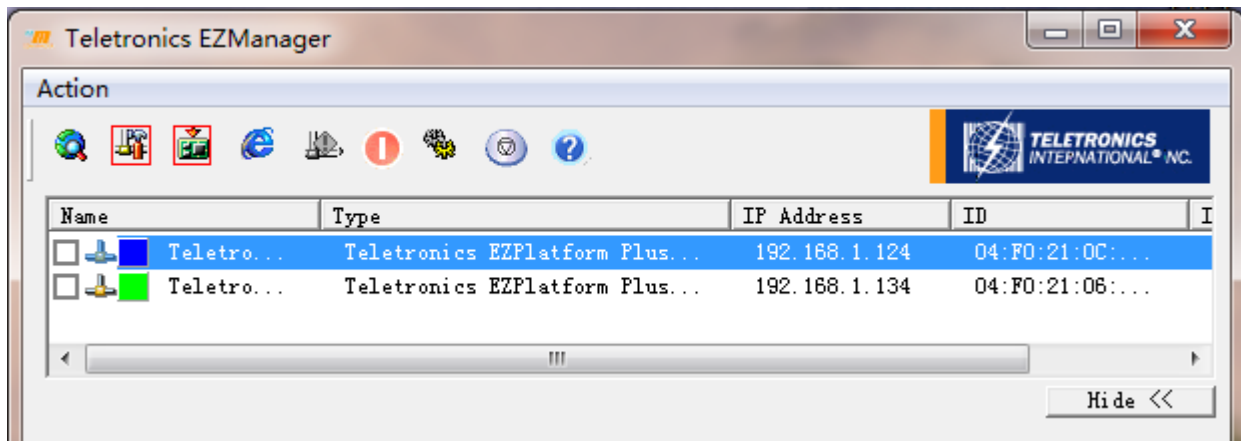









Figure 26.

The functions of some of the buttons in EZManager are explained below, as well as how they can be used with the EZPlatform®.

Icon	Function
	Scans the network for Teletronics devices and shows their IP address and MAC address.
	Allows you to change the IP address, subnet mask and default gateway of the EZPlatform® Plus
	Loads firmware to the EZPlatform® Plus
	Opens the web interface of the EZPlatform® Plus. The computer needs to be in the same subnet as the EZPlatform® Plus
	Reboots the EZPlatform® Plus
	Application Settings
	Resets all settings of the EZPlatform® Plus to factory default

Note: Click the Settings button, and display the Configurations dialoge, please enter theadmin's password . After that , you can set parameter in EZManger.

## 4. Web Interface Configuration

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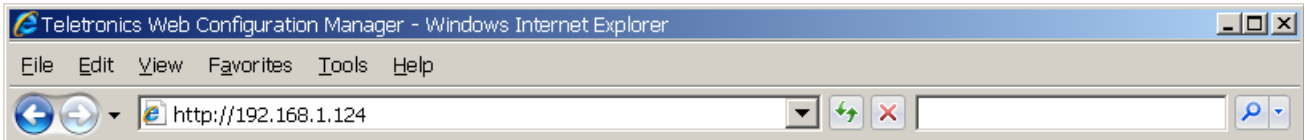
The EZPlatform<sup>®</sup> can be conveniently configured using its web interface. The web interface provides intuitive navigation and options for you to easily configure the unit. Figure 2 shows a sample page of the web interface.

### 4.1 Login Information

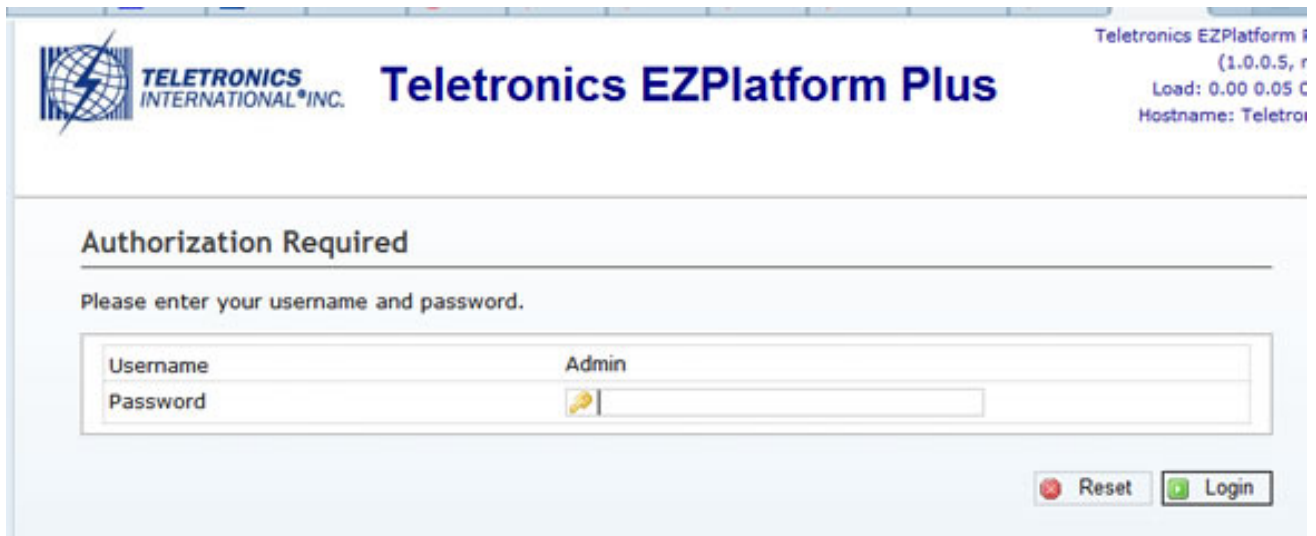
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After properly connecting and powering the unit, wait for the unit to finish the boot-up process.

On the computer connected to the EZPlatform<sup>®</sup> via Ethernet, open a browser and point it to the IP address of the EZPlatform<sup>®</sup> (192.168.1.124 by default), as shown in Figure 3.



To log in to the web interface, enter the user name and password in the prompt that appears, as shown in Figure 4.



**Figure 4.** User name and password

The default user name is “admin” and the default password is “password”. The password can be changed once you have logged in. After logging in, you will see the page shown in Figure 5.

Username: **admin**  
Password: **password**

## 4.2 Status

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### 4.2.1 Overview Status

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The web interface is the home page and thus is the page displayed when you log in. This page displays a summary of the current configuration and status of the EZPlatform<sup>®</sup> Plus, as shown in Figure 5.

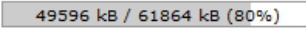
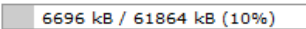
[Status](#) [System](#) [Network](#) [Logout](#)

## Status

### System

Router Name	Teletronics
Router Model	Teletronics EZPlatform Plus
Firmware Version	Teletronics EZPlatform Plus (1.0.0.5, r58)
Kernel Version	3.3.8
Local Time	Thu Sep 8 17:19:22 2011
Uptime	1h 35m 32s
Load Average	0.60, 0.18, 0.10

### Memory

Total Available	 49596 kB / 61864 kB (80%)
Free	 40932 kB / 61864 kB (66%)
Cached	 6696 kB / 61864 kB (10%)
Buffered	 1968 kB / 61864 kB (3%)

## 4.2.2 Firewall Status

[Status](#) [System](#) [Network](#) [Logout](#)

## Firewall Status

### Actions

- [Reset Counters](#)
- [Restart Firewall](#)

Table: Filter

### Chain INPUT (Policy: ACCEPT, Packets: 0, Traffic: 0.00 B)

Rule #	Pkts.	Traffic	Target	Prot.	Flags	In	Out	Source	Destination	Options
1	333554	22.20 MB	ACCEPT	all	--	*	*	0.0.0.0/0	0.0.0.0/0	ctstate RELATED,ESTABLISHED
2	299524	18.00 MB	ACCEPT	all	--	lo	*	0.0.0.0/0	0.0.0.0/0	-
3	6433	326.66 KB	<a href="#">syn_flood</a>	tcp	--	*	*	0.0.0.0/0	0.0.0.0/0	tcp flags:0x17/0x02
4	11413	855.19 KB	input_rule	all	--	*	*	0.0.0.0/0	0.0.0.0/0	-
5	11413	855.19 KB	<a href="#">input</a>	all	--	*	*	0.0.0.0/0	0.0.0.0/0	-

## 5.2.3 Routes list

[Status](#) [System](#) [Network](#) [Logout](#)

### Routes

The following rules are currently active on this system.

#### ARP

IPv4-Address	MAC-Address	Interface
192.168.1.59	94:de:80:09:de:63	br-lan

#### Active IPv4-Routes

Network	Target	IPv4-Gateway	Metric
lan	0.0.0.0/0	192.168.1.1	0
lan	192.168.1.0/24	0.0.0.0	0

This page shows the Route list and ARP list.

## 4.2.4 System Log

[Status](#) [System](#) [Network](#) [Logout](#)

### System Log

```
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.680000] bio: create slab <bio-0> at 0
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.690000] PCI host bridge to bus 0000:00
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.690000] pci_bus 0000:00: root bus resourc
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.700000] pci_bus 0000:00: root bus resourc
Sep 8 15:44:05 Teletronics kern.debug kernel: [ 2.700000] pci 0000:00:11.0: [168c:0029] ty
Sep 8 15:44:05 Teletronics kern.debug kernel: [ 2.700000] pci 0000:00:11.0: reg 10: [mem 0
Sep 8 15:44:05 Teletronics kern.debug kernel: [ 2.700000] pci 0000:00:11.0: PME# supported
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.700000] pci 0000:00:11.0: BAR 0: assigned
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.710000] pci 0000:00:11.0: using irq 40 fo
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.710000] Switching to clocksource MIPS
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.720000] NET: Registered protocol family 2
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.720000] IP route cache hash table entries
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.720000] TCP established hash table entrie
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.730000] TCP bind hash table entries: 2048
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.730000] TCP: Hash tables configured (esta
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.740000] TCP reno registered
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.740000] UDP hash table entries: 256 (orde
Sep 8 15:44:05 Teletronics kern.info kernel: [ 2.750000] UDP-Lite hash table entries: 256
```

This page shows you important events that have been logged by the EZPlatform® Plus . Events are displayed chronologically, with the most recent ones displayed at the bottom of the list.

# EZPlatform Plus

Teletronics EZPlatform Plus  
(1.0.0.5, r58)  
Load: 0.00 0.01 0.05  
Hostname: Teletronics

Display the Equipment type, Firmware, Hostname etc.

## 4.3 System

### 4.3.1 System

#### 4.3.1.1 General Settings

[Status](#) [System](#) [Network](#) [Logout](#)

### System

Here you can configure the basic aspects of your device like its hostname or the timezone.

#### System Properties

General Settings

Logging

Language and Style

#### Local Time

Fri Sep 9 13:02:39 2011



Sync with browser

Hostname

Teletronics

Timezone

UTC



#### Time Synchronization

Enable NTP client



Provide NTP server

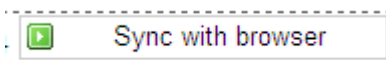


NTP server candidates

0.time-a.nist.gov



In this page , you can change the Timezone , Local Time, Hostname,and the NTP server.

Click the button  , the time of EZPlatform will **synchronize** to your PC.

## 4.3.1.2 System

[Status](#) [System](#) [Network](#) [Logout](#)

### System

Here you can configure the basic aspects of your device like its hostname or the timezone.

#### System Properties

General Settings

Logging

Language and Style

System log buffer size	<input type="text"/>
	<a href="#">?</a> kiB
External system log server	<input type="text"/>
External system log server port	<input type="text"/>
Log output level	Debug <input type="button" value="v"/>
Cron Log Level	Normal <input type="button" value="v"/>

#### Time Synchronization

Enable NTP client	<input checked="" type="checkbox"/>
Provide NTP server	<input type="checkbox"/>
NTP server candidates	1.time-a.nist.gov <input type="button" value="x"/>

In this Page , you can config the logbuffer size, log server etc.

### Language and Style Page

[Status](#) [System](#) [Network](#) [Logout](#)

### System

Here you can configure the basic aspects of your device like its hostname or the timezone.

#### System Properties

General Settings

Logging

Language and Style

Language	English <input type="button" value="v"/>
----------	--

#### Time Synchronization

Enable NTP client	<input checked="" type="checkbox"/>
Provide NTP server	<input type="checkbox"/>
NTP server candidates	1.time-a.nist.gov <input type="button" value="x"/>



**Languages:** Select the Chinese/English

## 4.3.2 Administration

[Status](#) [System](#) [Network](#) [Logout](#)

### Router Password

Changes the administrator password for accessing the device

Password



Confirmation



### SSH Access

Dropbear offers [SSH](#) network shell access and an integrated [SCP](#) server

#### Dropbear Instance

Delete

Interface

lan:

wan:

unspecified

Listen only on the given interface or, if unspecified, on all

#### Router Password

**Password:** enter the new password that you wish to use.

**Confirmation:** enter once again the new password that you wish to use

#### SSH Access

**Interface:** The interface that SSH listen for connection.

**Port:** Specifies the listening port.

**SSH-Keys:** public SSHs input area.


### 4.3.3 LED Configuration

Status System Network Logout Unsaved Changes: 2


---

#### LED Configuration

Customizes the behaviour of the device LEDs if possible.

 Delete

Name	<input type="text"/>
LED Name	<input type="text" value="green:status"/> ▼
Default state	<input type="checkbox"/>
Trigger	<input type="text" value="none"/> ▼

 Add

#### *LED Configuration*

**Name:** Define the name of LED.

### 4.3.4 Backup/ Flash firmware

The Backup and Flash Firmware page is shown in Figure 21.

## Flash operations

### Backup / Restore

Click "Generate archive" to download a tar archive of the current configuration files. To reset the firmware to its initial state, click "Perform reset" (only possible with squashfs images).

Download backup:

Reset to defaults:

To restore configuration files, you can upload a previously generated backup archive here.

Restore backup:

### Flash new firmware image

Upload a sysupgrade-compatible image here to replace the running firmware. Check "Keep settings" to retain the current configuration.

Keep settings:

Image:

Figure 21. Backup and Flash Firmware Page

#### *Backup / Restore*

**Generate archive:** click on this link to download the current configuration of the EZPlatform<sup>®</sup> Plus to your computer so that you can restore it later if needed.

**Perform reset:** click on this button to restore all the settings of the EZPlatform<sup>®</sup> Plus to factory default, including the IP address.

**Browse:** click on this button to browse your local computer and choose the configuration file which contains the settings that you wish to restore.

**Upload archive:** after selecting the archive file, click on the 'Upload archive' to Restore the configuration saved before.

#### *Firmware Upgrade*

**Browse:** click on this button to browse your local computer and choose the firmware binary file

you wish to load to the EZPlatform<sup>®</sup> Plus.

**Flash image:** after selecting the binary file, click on the 'Flash image' to Upgrade firmware.

### 4.3.5 Reboot



Status System Network Logout

## System

### Reboot

Reboots the operating system of your device

[Perform reboot](#)

**Perform reboot:** clicking on this button reboots the EZPlatform® Plus.

## 4.5 Network

### 4.5.1 Interface

Status System Network Logout

## Interfaces

### Interface Overview

Network	Status	Actions
<b>LAN</b> (  ) br-lan	<b>Uptime:</b> 0h 3m 13s <b>MAC-Address:</b> 04:F0:21:0C:D4:A1 <b>RX:</b> 131.09 KB (920 Pkts.) <b>TX:</b> 179.64 KB (612 Pkts.) <b>IPv4:</b> 192.168.1.124/24	<input type="button" value="Connect"/> <input type="button" value="Stop"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>
<b>WAN</b>  eth1	<b>Uptime:</b> 0h 0m 0s <b>MAC-Address:</b> 04:F0:21:0C:D4:A2 <b>RX:</b> 0.00 B (0 Pkts.) <b>TX:</b> 0.00 B (0 Pkts.)	<input type="button" value="Connect"/> <input type="button" value="Stop"/> <input type="button" value="Edit"/> <input type="button" value="Delete"/>

Add new interface...

### Interfaces - LAN

User can add/delete/edit/stop/connect LAN or WAN.

## Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation INTERFACE.VLANNR (e.g.: eth0.1).

### Common Configuration

General Setup

Advanced Settings

Physical Settings

Firewall Settings

Status

Uptime: 0h-3m-50s



br-lan

MAC-Address: 04:F0:21:0C:D4:A1

RX: 177.63 KB (1204 Pkts.)

TX: 324.57 KB (848 Pkts.)

IPv4: 192.168.1.124/24

Protocol

Static address

IPv4 address

192.168.1.124

IPv4 netmask

255.255.255.0

IPv4 gateway

192.168.1.1

IPv4 broadcast

Use custom DNS servers

### DHCP Server

LAN Interface can use pope, static IP, DHCP Client, L2TP, PPP etc. Switch the DHCP On/Off.

## Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation `INTERFACE.VLANNR` (e.g.: `eth0.1`).

### Common Configuration


General Setup

Advanced Settings


Physical Settings

Firewall Settings


Bridge interfaces


 creates a bridge over specified interface(s)


Enable STP


 Enables the Spanning Tree Protocol on this bridge


Interface

 Ethernet Adapter: "eth0" ([lan](#))

 Ethernet Adapter: "eth1" ([wan](#))

 Wireless Network: Master "Teletronics-0"

 Wireless Network: Master "Teletronics-1"


 Custom Interface:

### DHCP Server

General Setup

Advanced Settings

Ignore interface

 Disable DHCP for this interface.

Start

100

User can Enable/disable STP service and Interfaces.

[Status](#) [System](#) [Network](#) [Logout](#)

Unsaved Cha

## Interfaces - LAN

On this page you can configure the network interfaces. You can bridge several interfaces by ticking the "bridge interfaces" field and enter the names of several network interfaces separated by spaces. You can also use VLAN notation `INTERFACE.VLANNR` (e.g.: `eth0.1`).

### Common Configuration


General Setup


Advanced Settings

Physical Settings


Firewall Settings

Create / Assign firewall-zone

**lan:** **lan:** 

**wan:** **wan:** 

unspecified -or- create:

 Choose the firewall zone you want to assign to this interface. Select *unspecified* to remove the interface from the associated zone fill out the *create* field to define a new zone and attach the interface it.

### DHCP Server

General Setup

Advanced Settings

Firewall configure, User can select the ZONE of Firewall and create new one.

## 5.2 WiFi Configure

The screenshot shows the 'Wireless Overview' section of a network management interface. At the top, there are navigation links for 'Status', 'System', 'Network', and 'Logout', and a red notification 'Unsaved Changes: 12'. The main content is divided into two radio configuration cards and an 'Associated Stations' table.

**Wireless Overview**

**Generic MAC80211 802.11an (radio0)**  
Channel: 36 (5.180 GHz) | Bitrate: ? Mbit/s  
SSID: Teletronics-0 | Mode: AP  
0% BSSID: 04:F0:21:0C:CA:B3 | Encryption: None  
Buttons: Disable, Edit, Remove, Scan, Add

**Generic MAC80211 802.11bgn (radio1)**  
Channel: 11 (2.462 GHz) | Bitrate: ? Mbit/s  
SSID: Teletronics-1 | Mode: AP  
0% BSSID: 04:F0:21:0E:24:2E | Encryption: None  
Buttons: Disable, Edit, Remove, Scan, Add

**Associated Stations**

SSID	MAC-Address	IPv4-Address	Signal	Noise	RX Rate	TX Rate
No information available						

User can add/delete/start/off the Radio , and Edit the Radio, and Create Virtual Wireless SSID etc.

When click the Scan button , the device will display the Wireless SSID.

The screenshot shows the 'Join Network: Wireless Scan' page. At the top, there are navigation links for 'Status', 'System', 'Network', and 'Logout', and a red notification 'Unsaved Changes:'. The main content is a list of detected wireless networks with their details and a 'Join Network' button for each.

**Join Network: Wireless Scan**

42%	<b>teletronics00</b> Channel: 6   Mode: Master   BSSID: 00:25:86:21:A4:56   Encryption: WEP	Join Network
54%	<b>VIDEOPHONE_zbs4</b> Channel: 11   Mode: Master   BSSID: 4C:09:B4:2E:33:85   Encryption: WPA - PSK	Join Network
54%	<b>STB_zbs4</b> Channel: 11   Mode: Master   BSSID: 4C:09:B4:2E:33:86   Encryption: WPA - PSK	Join Network
54%	<b>BACKUP</b> Channel: 11   Mode: Master   BSSID: 4C:09:B4:2E:33:87   Encryption: WPA - PSK	Join Network
54%	<b>CU_zbs4</b> Channel: 11   Mode: Master   BSSID: 4C:09:B4:2E:33:84   Encryption: WPA - PSK	Join Network

Buttons: Back to overview, Repeat scan

User can Click the “Join Network” button , to join the wireless network.

## Wireless Network: Master "Teletronics-1" (wlan1)

The *Device Configuration* section covers physical settings of the radio hardware such as channel or antenna selection which is shared among all defined wireless networks (if the radio hardware capable). Per network settings like encryption or operation mode are grouped in the *Interface*

### Device Configuration

General Setup

Advanced Settings

Status

**Mode:** Master | **SSID:** Teletronics-1  
**BSSID:** 04:F0:21:0E:24:2E | **Encryption:** N  
**Channel:** 11 (2.462 GHz) | **Tx-Power:** 23 c  
**Signal:** 0 dBm | **Noise:** -88 dBm  
**Bitrate:** 0.0 Mbit/s | **Country:** US



Wireless network is enabled

Disable

Channel

11 (2.462 GHz)

Transmit Power

27 dBm (501 mW)   
 dBm

### Interface Configuration

General Setup

Wireless Security

MAC-Filter

- No Encryption
- No Encryption
- WEP Open System
- WEP Shared Key
- WPA-PSK
- WPA2-PSK
- WPA-PSK/WPA2-PSK Mixed Mode
- WPA-EAP
- WPA2-EAP



## Wireless Network: Master "Teletronics-1" (wlan1)

The *Device Configuration* section covers physical settings of the radio hardware such as channel, 1 or antenna selection which is shared among all defined wireless networks (if the radio hardware is r capable). Per network settings like encryption or operation mode are grouped in the *Interface Cont*

### Device Configuration

General Setup

Advanced Settings

Mode	802.11g+n
HT mode	20MHz
Country Code	US - United States
	<input checked="" type="checkbox"/> Use ISO/IEC 3166 alpha2 country codes.
Distance Optimization	<input type="text"/>
	<input checked="" type="checkbox"/> Distance to farthest network member in meters.
Fragmentation Threshold	<input type="text"/>
RTS/CTS Threshold	<input type="text"/>

### Interface Configuration

General Setup

Wireless Security

MAC-Filter

## DHCP and DNS

Dnsmasq is a combined DHCP-Server and DNS-Forwarder for NAT firewalls

### Server Settings

General Settings | **Resolve and Hosts Files** | TFTP Settings | Advanced Settings

Domain required	<input checked="" type="checkbox"/> <a href="#">?</a> Don't forward DNS-Requests without DNS-Name
Authoritative	<input type="checkbox"/> <a href="#">?</a> This is the only DHCP in the local network
Local server	<input type="text" value="/lan/"/> <a href="#">?</a> Local domain specification. Names matching this domain are never forwarded and resolved from DHCP or hosts files only
Local domain	<input type="text" value="lan"/> <a href="#">?</a> Local domain suffix appended to DHCP names and hosts file entries
Log queries	<input type="checkbox"/> <a href="#">?</a> Write received DNS requests to syslog
DNS forwardings	<input type="text"/> <a href="#">?</a> List of DNS servers to forward requests to
Rebind protection	<input checked="" type="checkbox"/> <a href="#">?</a> Discard upstream RFC1918 responses
Allow localhost	<input checked="" type="checkbox"/> <a href="#">?</a> Allow upstream responses in the 127.0.0.0/8 range, e.g. RBL services
Domain whitelist	<input type="text"/>

## Hostnames

### Host entries

Hostname	IP address	
<input type="text"/>	<input type="text" value=""/>	<input type="button" value="Delete"/>
<a href="#">+</a> Add		

## Routes

Routes specify over which interface and gateway a certain host or network can be reached.

**Static IPv4 Routes**

Interface	Target	IPv4-Netmask	IPv4-Gateway	Metric	MTU
	Host-IP or Network	if target is a network			
<i>This section contains no values yet</i>					
Add					

## Firewall - Zone Settings

The firewall creates zones over your network interfaces to control network traffic flow.

**General Settings**

Enable SYN-flood protection	<input checked="" type="checkbox"/>
Drop invalid packets	<input type="checkbox"/>
Input	accept
Output	accept
Forward	reject

**Zones**

Zone ⇒ Forwardings	Input	Output	Forward	Masquerading	MSS clamping	
lan: lan:  ⇒ wan	ac	acc	reject	<input type="checkbox"/>	<input type="checkbox"/>	Edit
wan: wan:  ⇒ REJECT	rej	acc	reject	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Edit
Add						

## 5. Frequently Asked Questions

1). What is the default IP address, user name and password of the EZPlatform® Plus?

- IP address: **192.168.1.124**
- User name: **admin**
- Password: **password**

## **2). How do I know if the EZPlatform<sup>®</sup> Plus has finished booting up?**

Normally the EZPlatform<sup>®</sup> Plus takes about 30 seconds to bootup.

You can ping 192.168.1.124 in Console to confirm the connection of the EZPlatform<sup>®</sup> Plus.

## **3). I forgot the IP address of the EZPlatform<sup>®</sup>.**

You can recover the IP address of the EZPlatform<sup>®</sup> Plus using EZManager Tools.

EZManager: connect the EZPlatform<sup>®</sup> Plus to a computer running EZManager and scan the network. EZManager will detect the EZPlatform<sup>®</sup> Plus and display its IP address.

## **4). I forgot the password of the EZPlatform<sup>®</sup>, or cannot access the web interface.**

To access the EZPlatform<sup>®</sup> again, you will need to reset all settings to factory default.

EZManager: connect the EZPlatform<sup>®</sup> Plus to a computer running EZManager and scan the network. EZManager will detect the EZPlatform<sup>®</sup> Plus. Click on the 'Set settings to factory default' icon.

PCB Reset Button: press the RESET button for about 5 seconds and release off.

EZPlatform<sup>®</sup> Plus will 'Reboot' as Default settings.

## **5). I am having trouble establishing a wireless link.**

If the access point or the subscriber unit does not appear in the Wireless Status page, follow these steps:

- Test the radios at a close distance (e.g.: on the same tabletop) without amplifiers.
- Verify that you are using the correct network configuration at both ends of the link (AP, AP with WDS, SU or ad hoc).
- Make sure the WLAN interface you are using and the other end of the link are using the same SSID.
- Check that the antennas are precisely aligned.
- Verify all connections and that all cables and connectors are tightly coupled.
- Reset the radios at both ends to factory default and configure both radios again.

## **6). I was able to establish a wireless link, but I cannot pass any traffic.**

If you see correct wireless association in the Wireless Status page, but are unable to ping the remote site or pass any other traffic, follow these steps:

- Make sure the WLAN interface you are using and the other end of the link are on the same subnet.
- Disable encryption at both ends.
- Reboot both radios.

## **7). I can pass traffic but the throughput is very low or I am losing packets.**

Follow these steps:

- Revise your RF calculations to make sure the equipment you are using can produce a reliable connection for the current link distance.
- Check that the antennas are precisely aligned.
- Check that you are not causing self-interference or receiving interference from your RF environment.
- Verify that the radios at both ends have enough vertical clearance to keep the

Fresnel zone unobstructed.

**8). I have other questions or comments about the EZPlatform<sup>®</sup>. How can I contact technical support?**

You can contact us by:

- Online Helpdesk: <http://teletronics.com/Supportform.html>
- Email: [support@teletronics.com](mailto:support@teletronics.com)
- Telephone: 1-301-309-8500
- Fax: 1-301-309-8851
- Postal mail:

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