****
*   P1025TWR Board   *
*   Version 1.1.2   *
****

This file contains release information about the P1025TWR board.

Release Information:

==

This image can be used for P1025TWR board.

I. Hardware board support and software version:

~~~~~~

P1025TWR

    U-boot: 2011.09 (Jan 05, 2012)

    Linux version 2.6.35.14   (gcc version 4.3.2 (GCC))

    Atheros driver version: 9.2.0_U10.1020

    Firmware version: v1.1.2

II. Hardware board and corresponding files:

~~~~~~

P1025TWR:

  tftpdown-p1025twr-nor.vbs

  twr-p1025_32b.dtb

  uImage

  root.squashfs

III. Features in this Release:

~~~~~~

1. Wireless WiFi functionality:

    - Supports 2 mPCIe Atheros XB-114 WiFi cards (chipset AR9390, version V2.2)

    - 802.11a/b/g/n to 500M(Dual band)

    - Only WiFi AP mode support.

2. Network Attached Storage functionality:

    - Disk filesystem supports XFS/FAT32/EXT2/EXT3/EXT4/NTFS.

    - Disk management supports Volume management and RAID management.

    - Account Management supports LDAP, User account/group management.

    - Sharing management supports SAMBA, FTP, NFS, HTTP.

    - Backup service supports Snapshots, Rsync Server, Rsync Client.

    - Backup strategy supports Instant/ Schedule/Auto-sync backup, back up to external storage device or from external storage.

3. Network Video

    - RTSP/RTCP/RTP/HTTP.

    - Capturing/Forwarding/Record/Playback/Search/VOD

    - MP4V/H.264/MJPEG

    - CIF/VGA/D1/HD1080p

    - Play/pause/stop/faster/slower/search

    - Matrix display/Full Screen display

    - Live-viewing by Hand-Held devices which support WIFI, e.g. iPhone, iPAD, HTC HD2 and so on

    - Ability to run on multiple cores and in Giga-bit switch network.

    - Maximum output streaming bit-rate is up to 180Mbps.

    - Auto detection of devices logon and logoff

4. Network router functionality:

    - Static IP/router

    - DHCP Server/Client

    - DNS,DDNS

    - UPNP

    - NAT/PAT

    - IGMP

    - PPPoE

    - VLAN

    - VPN(pass through, PPTP client/server, IPsec)

    - Ripv1/v2

    - 3G uplink

5. Network security functionality:
  - Firewall
  - IDS
  - IPS

6. System configuration & management
  - HTTP/HTTPS based Web GUI management
  - SSH/Telnet management
  - Firmware update
  - Configuration data backup & restore
  - Support Linux SMP mode

7. Media Service
  - UPNP
  - DLNA
  - BitTorrent

8. Smart Energy
 - Support for ZigBee HA 1.0 Home Automation providing remote monitoring and control of appliances via supported Smart Plugs

IV. How to update the image:
~~~~~~

1. Open tftp server and secureCRT with a baud rate of 115200
2. Run script file tftpdown-p1025twr-nor.vbs in secureCRT to update P1025TWR image.
3. uImage, root.squashfs can be used for both P1025TWR board.
4. twr-p1025_32b.dtb is used for P1025TWR.
5. u-boot.bin is used for P1025TWR board.

V. Known Issues and Workaround:
~~~~~~

1. Squashfs filesytem compiled with Ubuntu Linux cannot run on this board.

V. Documentation:

~~~~~~

The documents available with this release are:

1. P1 Tower System Module LTIB Quick Start Guide.

web link is http://compass.freescale.net/livelink/livelink/open/219285001

VI. How to Contact Us:
~~~~~~
You can contact us via email, newsgroups, voice, fax or
the Freescale website. For details on contacting
Freescale, visit http://www.freescale.com or write to us at:
Support@freescale.com

==

May 27, 2011 Freescale Corporation