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
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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
ulmage
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:
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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:
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1. Squashfs fileysystem 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

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