

## Description

This note will describe the flash layout, used in the turnkey solution of RTL819X Linux system. Besides, it will show you what are application programs adopted in the system.

Users can modify the flash layout, see more details in “Kernel 2\_6 SDK User Guide v1\_xx.pdf”.

### Flash memory layout for GW (2M flash and 16M SDRAM)

Virtual Address	Flash sector size	Usage
0xbfc0_0000	16K	Boot code
	8K	
0xbfc0_6000	8K	H/W setting
		Default setting (16k) Current setting (16k)
0xbfc0_8000	32K	
0xbfc1_0000	128K	Web pages
0xbfc3_0000	768K	LINUX
0xbfcf_0000	1088K	Squashfs root filesystem

### Flash memory layout for GW (4M flash and 32M SDRAM)

0xbfc0_0000	16K	Boot code
	8K	
0xbfc0_6000	8K	H/W setting
		Default setting (16k) Current setting (16k)
0xbfc0_8000	32K	
0xbfc1_0000	128K	Web pages
0xbfc3_0000	1024K	LINUX
0xbfd3_0000	2880K	Squashfs root filesystem

**Flash memory layout for GW (8M flash and 64M SDRAM)**

0xbfc0_0000	16K	Boot code
	8K	
0xbfc0_6000	8K	H/W setting
0xbfc0_8000	32K	Default setting (16k) Current setting (16k)
0xbfc1_0000	128K	Web pages
0xbfc3_0000	1024K	LINUX
0xbfd3_0000	6976K	Squashfs root filesystem

## Application program components

Execution program	Package	Version	Description
webs	boa	0.94.14	Web server
udhcpd/udhcpc	udhcp server/client	0.9.9-pre	DHCP client/server
iptables	iptables-1.2.6a	1.4.4	Tool, set firewall/netfilter rules
iproute2	iproute2		Tool, set traffic control/QoS rules
pppd	pppd	2.4.4	PPP daemon
l2tpd	l2tpd	0.70	l2tpd client daemon
pptp	pptp	1.7.2	pptp client daemon
updatedd	updatedd	2.5	ddns client
ntpcient	ntpcient		NTP client
routed	routed	1.0	RIP1/RIP2 daemon
igmpproxy	igmpproxy	1.2	IGMP Proxy daemon
dnrd	dnrd	2.12.1	Dns relay daemon
lltdd	lltdd		Link Layer Topology Discovery Daemon
iapp	IAPP	1.7	Inter-Access Point Protocol
miniigd	igd	1.07	UPnP IGD daemon
wscd	wsc	1.14	WPS daemon
auth	auth		IEEE 802.1X (WPA) daemon
control	auth/src/dlisten		Wireless config Tool
reload	rc		Daemon for Wlan schedule and reset factory default
iwpriv	Wireless tools		Configure wlan MIB to driver
Flash	boa/utlis		Tool, to set/get flash MIB parameters
sysconf	boa/system		Tool, system init tool
Webs pages	boa/html		Static web pages, referred by web server