ReadyNAS LED Language (*)

(*) Applies to ReadyNAS NV, 1100, Rev B X6/600

Legend:

- LED off
- ***** * \\ \\ \\ \\ \ LED on
- Power LED fast blinking
- Power or disk LED slow blinking
- Power LED pulsating
- ACT LED blinking occasionally or constantly

Pattern	Description
•••• •	Normal BIOS boot, this stage should not last for longer than 30 seconds. Otherwise, try re-seat SODIMM or
	replace SODIMM. If it still does not work, perform NAND recovery. If NAND recovery does not go through or
	does not solve problem, PSU is in question.
Ф М	SODIMM fails SPD check, re-seat SODIMM or replace SODIMM
K • • • • • •	
••••	SODIMM fails memory access test, re-seat SODIMM or replace SODIMM
K ••••	
••••	Boot loader fails to locate valid RAIDiator image, TFTP or USB OS image recovery required
•••• • *	TFTP boot request, Server should be at 192.168.125.1 and provide kernel_conf and initrd_conf.
•••• • *	TFTP boot request, Server should be at 192.168.125.1 and provide kernel_init and initrd_init.
•••• •	NAND device has been initialized, it could be a sign of NAND corruption, NAND image recovery is needed only if system behavior is abnormal.
●●●● ● 兼	Ethernet PHY fails to link, please double check network cable and switches/Routers are good.
٧ 🌞 🔸 🔸	Memory test ongoing, Disk LEDs indicate pattern number is under testing.
ν * ν	Memory test is triggered by press Power switch for 25 seconds(5th all disk LED blink)
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●●●● ● 兼	Memory test finishes without error, press power button to reboot or re-do test again if needed.
•••• ф и	Memory test failed, Re-seat memory or replace memory.
K •••• *	
•••• • *	ReadyNAS OS is booting, this stage should not last for more than 3 minutes. Otherwise, one of disk may be
	bad or incompatible. SATA backplane is the next to be questioned, and then NAND or SODIMM.
••••• ф и	RAIDiator image does not match NAS platform, contact tech support to convert OEM NAS to ReadyNAS.
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Ф Ф Ф Д	No disks detected, please choose disks from hardware compatible list.
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· · · · · · · · · · · · · · · · · · ·	Corrupted, do not mix used disks and cold boot up. In most cases, problem may be solved by OS reinstall with
⊼ ●●●● □ ☆	optional NAND recovery. Contact tech support before taking actions.
м ф и	OS image on NAND is corrupted, please perform NAND recovery through TFTP or USB
⊼ ●●●● ● ☆	
●●●● 兼 ⇔ ⊿	Volume expansion ongoing, it takes from less than half hour up to half day depends on existing volume and
●●●● 兼 🗘 и	new volume size. ACT LED should be blinking often during expansion, if no ACT LED blinking for long period, there might be
●●● 兼 ‡ и	something wrong with disks.
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●●●● * ●	Boot finishes, normal operating mode. ACT indicates disk access. Disk LED indicates corresponding disk is healthy. Example shows 4 healthy disks.
●*●● * ●	Disk 2 is bad or under resync.
•••••	Factory switch pressed while power on
••••• # ⊿	1st Blink at 5th second: OS reinstall (All blinks below actually last for 2 seconds so you will not miss it)
•••• • * ч	Release switch as soon as you see 1st blink for OS reinstall
●●●● ● ♣ ⊿	2 nd Blink at 30 th second: Factory Reset
•••••	All data will be wiped out!
●●●● ● ♣ ⊿	3rd Blink at 50th second: TFTP recovery(System will start to boot at 53rd second even you keep pressing factory switch)
•••• •	Setup TFTP server at 192.168.125.1 with kernel_init, initrd_init and recovery images
•••••	Power switch pressed while power on
••••• # ⊿	1 st Blink at 5 th second: Factory boot option, do not use
•••• ф	
•••• • # л	2 nd Blink at 10 th second: TFTP Boot
•••• ф и	Setup TFTP server at 192.168.125.1 with kernel_conf, initrd_conf and service files
л * п	3 rd Blink at 15 th second: Factory boot option, do not use(Please press front power button to gracefully shutdown and reboot NAS if you run into it by mistake)
* 7	4th Blink at 20th second: USB Boot Use Raw-writer service images from tech support.
→ • • • • • • • • • • • • • • • • • • •	
* A	5th Blink at 25th second: Memory test See above memory test LED patterns for test progress and result readings.
* * * * * * * * * * * * * * * * * * *	6th Blink at 50th second: TFTP recovery (System will start to boot at 53rd second even you keep pressing power switch) Setup TFTP server at 192.168.125.1 with kernel_init, initrd_init and recovery images