NEW HARDWARE RELEASE

OVERVIEW

After almost 5 years in production, the first 64drive is being retired – and a new hardware version is now out to take its place. Several new features build on the philosophy that created the original – minimal design shortcuts and attention to detail.

FEATURE MATRIX

	64drive HW2	64drive HW1
Compatibility	100%	99.8% (100% with 6105)
Cartridge RAM	256MB DDR2	64MB SDRAM
Lockout Chip	Auto-region , emulate 100% of all known CIC types	6102/6105 fixed region
USB Interface	20+MB/sec USB 2.0 Micro-B	8MB/sec USB 2.0 Mini-B
Memory Cards	microSD	microSD, CompactFlash
Save Chip Emulation	100%, realtime flushed to SD	100%, realtime flushed to card
Real-time Clock	Yes	No
Wi-Fi (802.11b/g/n)	Yes	No
Multipurpose Button	Yes	No

FEATURE EXPLANATION

- 1. New custom CIC chip.
 - Automatic region support 64drive now works in all Nintendo 64s regardless of lockout region. No manual switching is required.
 - No patches required to run any known software in existence. Also, any CIC ever produced can be emulated in USB mode allowing full compatibility with physical Gamesharks.
- 2. More SDRAM now 256MB which is four times larger than the largest known title. This extra RAM will be key in enabling true 64DD support.
- 3. Faster USB interface 20MB/sec with up to 35MB/sec in the future. The USB interface is entirely hardware DMA driven and runs independently of any N64 software in both HW1 and HW2.
- 4. Battery-backed real-time clock will allow true 64DD support along with Doubutsu no Mori.
- 5. Wireless LAN support via ESP8266 chipset supports both client and access point mode via serial UART. Built-in TCP/IP and UDP stacks, upgradeable via software.
- 6. Push button is exposed on the cartridge back usable for future Gameshark emulation (GS button) or memory mapped for use by homebrew.





IMPLICATIONS

- 1. New hardware HW2 is compatible with any application using existing 64drive features.
- 2. All software (menu, firmware, bootloader) will continue to be developed and any new features where applicable will be backported to the old HW1.
- 3. Support for physical HW1 units in the field continues.

