⌥ main ▾ | ⑂ **1** Branch | ⬚ **12** Tags | ⑂ | ◌ | 🔍 Go to file | Go to file | <> Code ▾ | ⋯

🔆 **916BGAI** release: nanokvm@1.2.13   6e6df77 · 5 days ago   ⟲ **90 Commits**

📁 .github/workflows	ci: add missing parameters and push...	3 weeks ago
📁 server	feat: support keyboard leader key fu...	2 weeks ago
📁 support	feat: support virtual microphone and...	last month
📁 web	fix: the leader key cannot be disabled	2 weeks ago
📄 .gitignore	chore: update .gitignore	2 weeks ago
📄 CHANGELOG.md	release: nanokvm@1.2.13	5 days ago
📄 LICENSE	Add GNU GPL v3 license	4 months ago
📄 README.md	Release web and server code	3 months ago

About

High-performance 4K IP-KVM

🔗 wiki.sipeed.com/nanokvmpro

📖 Readme

⚖ GPL-3.0 license

⌁ Activity

▣ Custom properties

☆ **66** stars

👁 **6** watching

⑂ **9** forks

Report repository

Releases 12

🏷 **v1.0.13** (Latest)

Packages

No packages published

Contributors 7

Languages

● TypeScript 63.6% ● Go 23.8%
● Python 6.2% ● HTML 3.2%
● Shell 1.8% ● JavaScript 0.9%
Other 0.7%

📖 **README** ⚖ **GPL-3.0 license**

NanoKVM-Pro

Code Availability

- ☑ **Frontend** (Released)
- ☑ **Backend** (Released)
- ☐ **Support** (in development)

Introduction

NanoKVM-Pro is the continuation of NanoKVM, inheriting the extreme compactness and powerful expandability of the NanoKVM series as an IP-KVM product. It has made a significant leap in performance, making it more suitable for remote working scenarios.

To meet different user needs, NanoKVM-Pro offers two forms: NanoKVM-Desk and NanoKVM-ATX:
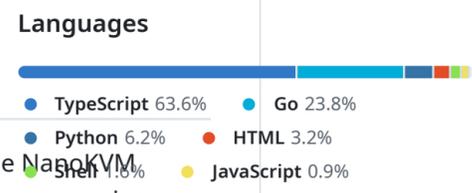

- **NanoKVM-Desk** is the desktop version of NanoKVM-Pro, featuring an anodized matte metal shell. The front panel has a 1.47-inch touchscreen that displays core KVM information and allows for easy hardware function settings or can be used as a mini secondary screen, providing a more tactile user experience with the left-side infinite knob.

- **NanoKVM-ATX** is the internal version of NanoKVM-Pro, equipped with half-height/full-height brackets for installation inside a case. It allows for easier installation for host users with built-in USB cables and power control interfaces. Remote control can be achieved via external HDMI, network, and USB connections.

NanoKVM-Pro uses the AX630 as its main control core, featuring an ARM 1.2G dual-core A53 CPU. The external 1GB LPDDR4 memory provides strong computing support for remote desktop connections. It has built-in HDMI loop-out and capture chips, offering up to 4K60FPS HDMI loop-out and 4K45FPS video capture. Thanks to AX630's efficient and powerful image processing architecture, NanoKVM-Pro can transmit high-resolution images with very low latency, with typical delays as low as 60ms at 2K resolution.

Specifications

Product	NanoKVM-Pro	NanoKVM	GxxKVM	JxxKVM
Main Control	AX630C	SG2002	RV1126	RV1106
Core	2xA53@1.2G	1xC906@1.0G	4xA7@1.5G	1xA7@1.2G
Memory	1G LPDDR4X	256M DDR3	1G DDR3	256M DDR3
Storage	32G eMMC	32G microSD	8G eMMC	16G eMMC
System	NanoKVM+PIKVM	NanoKVM	GxxKVM	JxxKVM
Resolution	4K@45fps	1080P@60fps	4K@30fps, 2K@60fps	1080P@60fps
HDMI Loop-Out	4K Loop-Out	×	×	×
Video Encoding	MJPG/H264	MJPG/H264	MJPG/H264	MJPG/H264
Audio Transmission	✓	×	✓	×
UEFI/BIOS Support	✓	✓	✓	✓
Simulated USB Keyboard/Mouse	✓	✓	✓	✓
Simulated USB ISO	✓	✓	✓	✓
IPMI	✓	✓	✓	×
Wake-on-LAN (WOL)	✓	✓	✓	✓
WebSSH	✓	✓	✓	✓
Custom Scripts	✓	✓	×	×
Serial Terminal	2 Channels	2 Channels	None	1 Channel
Storage Performance	32G eMMC 300MB/s	32G MicroSD 12MB/s	8G eMMC 120MB/s	8G eMMC 60MB/s
Ethernet	1000M	100M	1000M	100M
Internal Form Factor	Optional ATX version	Optional PCIe version	×	×
WiFi	Optional WiFi6	Optional WiFi6	×	×
MicroSD Expansion	✓	×	×	×
ATX Power Control	✓	✓	+15$	+10$
Display	1.47-inch 320x172 LCD 0.96-inch 128x64 OLED	0.96-inch 128x64 OLED	None	1.66-inch 280x240
Additional Features	Synchronized LED effects, Smart Assistant	–	–	–
Power Consumption	0.6A@5V	0.2A@5V	0.4A@5V	0.2A@5V
Power Input	USB-C/PoE	USB-C/PoE/PCIe	USB-C	USB-C
Dimensions	65x65x28mm	40x36x36mm	80x60x7.5mm	60x6x24-30mm

Where to buy

- AliExpress
- Pre-sale Page

💬 Community & Support

- Discord
- QQ group: 703230713
- email: support@sipeed.com
- FAQ

📜 License