

S32

Dedicated Real Android Infrastructure

for Mobile AI and programmable real-device workflows.



32	16	G99	HUB / OTG
Physical Android Nodes	Dual-SoC Boards	MediaTek G99-class	Dual Communication

A 32-node physical Android infrastructure appliance for Mobile AI agent execution, real-device testing, automation, and SIM-based workflows.

PRODUCT DEFINITION

32 physical nodes in one modular chassis.

S32 is built around 16 dual-SoC boards. Each board provides two physical nodes, creating a standard 32-node real-device deployment unit.

	
Modular board structure 16 dual-SoC boards; two physical nodes per board.	Deployment interfaces Power, cooling, USB and Gigabit Ethernet integrated into the appliance.

ARCHITECTURE

From operator layer to real physical nodes.

The system combines management, communication, modular board structure, physical ARM nodes, power, and cooling into one deployment unit.

Management Layer	Operator access and device management
HUB / OTG Layer	USB 2.0 / Ethernet communication
16 Dual-SoC Boards	Two physical nodes per board
32 Physical Nodes	Real-device Android environment with physical SIM support

Core parameters for deployment planning.

Model	ARMARRAY S32
Product class	Real-device ARM Infrastructure
Physical nodes	32
Board structure	16 Dual-SoC Boards
Platform	MediaTek G99-class 4G Platform
SIM	Physical SIM Support
Form factor	Non-standard 2U chassis
Dimensions	436.5mm x 281mm x 99.5mm
Communication modes	HUB / OTG
HUB mode	USB 2.0; downstream 480Mbps / 12Mbps / 1.5Mbps; USB1.1 support
OTG mode	1Gbps uplink; 100Mbps downlink; DHCP or static IP
VLAN	IEEE 802.1Q VLAN support
Interfaces	USB 2.0 / RJ45 Gigabit Ethernet
Power input	AC100-240V
Power output	DC12V 38.5A; max 460W
Cooling	4 x 8025 / 2500rpm quiet fans; 4 x 8038 / 3500rpm high-airflow fans
Weight	Approx. 8kg including carton, EPE foam, power cable, and accessories

PRIMARY USE CASE

Real Android infrastructure for Mobile AI Agents.

S32 can serve as a dedicated physical Android device pool for teams developing mobile agents, collecting real-device interaction evidence, or evaluating AI-driven workflows.



AI Agent / Model	Task instruction
API / Control	Execute on real devices
Physical Android	Real app interaction
Observation & Result	Screenshots, actions, logs

Positioning note. ARMARRAY provides the real-device infrastructure layer. Agent-specific task, lifecycle, trajectory and evaluation tooling can be scoped around POC requirements and is not presented here as a generally available software suite.

PLATFORM & INTEGRATION

Built on capabilities available today.

Start with proven device management, control and integration primitives, then extend them around the target workflow.

Device List & Status	Remote Control	Streaming
Remote Shell	Backend HTTP API	WebSocket
MQTT	Device Command	App Launch
Configuration	Discovery	Private Deployment

ADDITIONAL REAL-DEVICE WORKFLOWS

One infrastructure layer, multiple physical-device workloads.

Mobile App Testing	Real-device validation and QA workflows.
Automation & Device Operations	Centralized control and repeatable execution.
SIM-based Workflows	Physical SIM and cellular-aware scenarios.
Integration & Private Deployment	Dedicated infrastructure integrated into customer environments.

DEPLOYMENT & SCALE

Validate first. Scale infrastructure when the workflow is proven.

A typical engagement can begin with a small real-device POC and grow toward a dedicated cluster or private deployment.

Stage 1	8-16 Devices	Real-device POC
Stage 2	32-64 Devices	Dedicated device pool
Stage 3	128-500+	Production infrastructure
Stage 4	Private Deployment	Lab / office / data center

COMPLIANCE NOTE

Infrastructure for customer-defined lawful workflows.

ARMARRAY provides infrastructure. Final deployment scenarios depend on the buyer's lawful operational requirements, local compliance conditions, network environment, and project design.

CONTACT ARMARRAY

Discuss your deployment.

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