ARMARRAY

S32

Compact Real-device ARM Infrastructure

ARMARRAY S32 is a 32-node real-device ARM infrastructure appliance built around 16 dual-SoC boards, HUB / OTG dual communication, physical SIM support, modular drawer structure, and a non-standard 2U chassis.

32 Physical Nodes	**16** Dual-SoC Boards	**G99** MTK G99-class Platform	**HUB / OTG** Dual Communication

Product Positioning

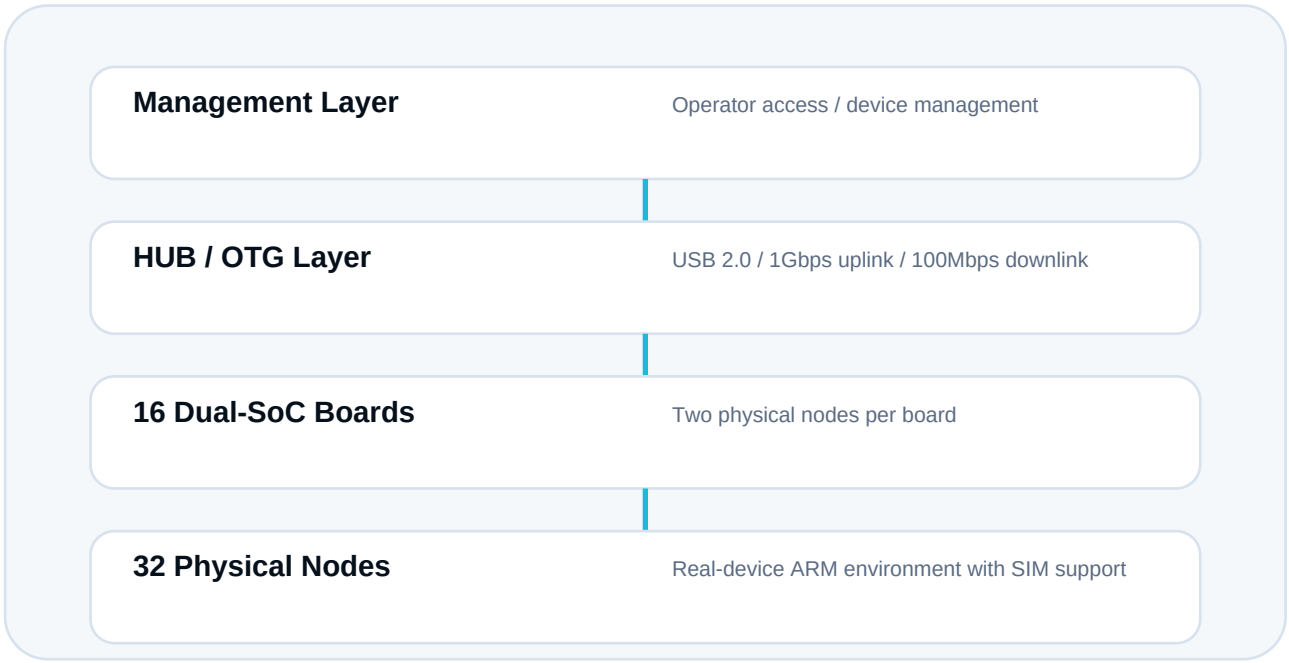
S32 is positioned as real-device ARM infrastructure, not a virtual-machine system. It is designed for mobile app testing, device validation, automation labs, SIM-based workflows, and remote device operations where physical devices and cellular behavior are relevant.

ARMARRAY S Series

S Series represents standard deployment appliances. S32 is the first standard model: one chassis, sixteen dual-SoC boards, and thirty-two physical nodes.

System Architecture

The system language is intentionally simple: one dual-SoC board equals two physical nodes. Sixteen boards create the standard S32 appliance.



Key Highlights

Real-device architecture	Physical ARM nodes provide a closer-to-field environment than pure VM approaches.
Physical SIM support	Supports SIM-based workflows and cellular-aware operation scenarios.
Drawer-based modules	Modular core-board structure supports easier inspection and maintenance.
HUB / OTG switching	Communication modes can be switched by group or controlled remotely through host software.
Independent management	Device management system supports full-chain hardware and software management.

Technical Specifications

Model	ARMARRAY S32
Product Type	CT Array Architecture / Real-device ARM Infrastructure
Physical Nodes	32
Board Structure	16 Dual-SoC Boards
Platform	MediaTek G99-class 4G Platform
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; per-port TT; port LED indicators
OTG Mode	Realtek RTL8305NB / RTL8309N Ethernet switching; 1Gbps uplink; 100Mbps downlink; DHCP or static IP
VLAN	IEEE 802.1Q VLAN support for port isolation strategy
Interfaces	USB 2.0 / RJ45 Gigabit Ethernet
Power	AC100-240V input; DC12V 38.5A output; max supported power 460W
Cooling Options	4 x 8025 / 2500rpm quiet fans; 4 x 8038 / 3500rpm high-airflow fans
Weight	Approx. 8kg including carton, EPE foam, power cable, and accessories

Deployment Scenarios

Mobile App Testing	Compatibility checks, QA workflows, regression testing, and real-device validation.
Automation Labs	Centralized device access for controlled automation, scripts, dashboards, and operation checks.
SIM-based Workflows	Projects where physical SIM access and cellular network behavior are relevant.
Remote Device Operations	Organized power, cooling, chassis, network, and management for stable daily operation.

Compliance Note

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

Contact

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Datasheet Version: v2.3