



Ampere® Altra® Family Operating System Compatibility and Recommended Compilers

Ampere Altra Family Compatibility with Operating Systems

Ampere® tests the operating systems listed in [Table 1](#) (subject to change at Ampere’s sole discretion).

For a given distribution release, Ampere performs minimal compatibility testing, including installation of the distribution and running a common set of basic operations on bare metal. Compatibility does not include Virtual Machine (VM) installation or testing.

Compatibility testing information is provided only for the convenience of our customers, and Ampere makes no guarantees or warranties of any kind (and disclaims all liabilities) related to this testing or any related information, including, but not limited to, warranties regarding accuracy, completeness, compatibility, performance, or sufficiency for any application, use, or purpose. OEM and CSP partners are expected to validate and certify the behavior of operating systems on their platforms because they define the specific hardware components and firmware implementation of their platforms.

Table 1: Compatible Operating Systems

Linux OPERATING SYSTEM COMPATIBILITY	PRE-SRP 2.10g	SRP 2.10g
Red Hat® RHEL Server	8.6 9.1	8.10 9.5
Canonical® Ubuntu® Server	20.04 LTS 22.04 LTS 24.04 LTS	22.04 LTS 24.04 LTS
Oracle® Linux	8.6 UEK6 8.7+ UEK7 9.1+ UEK7	8.10 UEK7 9.5 UEK7
SUSE® Linux Enterprise Server	15 SP4 15 SP5 15 SP6	15 SP6
Debian®	10 11 12	12

Ampere Altra Family Recommended Compilers

For more information on compilers, see <https://amperecomputing.com/tutorials/gcc-guide-ampere-processors>.

Table 2: Recommended Compilers

SRP RELEASE	ISA	MCPU VALUE	BINUTILS VERSION	GCC 9	GCC 10	GCC 11	GCC 12	GCC 13	GCC 14	GCC 15	LLVM
Pre-2.10g	Armv8.2+	neoverse-n1	≥ 2.33	≥ 9.1	All	All	All	All	All	–	≥ 16
2.10g	Armv8.2+	neoverse-n1	≥ 2.33	9.1	10.5	11.4	12.3	13.1	14.1	≥15	17.0.0 17.0.6 18.1.0 ≥20.1.1



February 19, 2026

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