



CHARM™ Developer Kit

Bring Your Own Devices

Corellium's new CHARM Developer Kit empowers developers to create their own custom virtual device models and load them into the Corellium platform for convenient testing, advanced research, and accelerated development.

Whether you're building the next generation of IoT hardware or researching a custom mobile peripheral, the CHARM Developer Kit gives you the tools you need to transform your hardware device into a virtualized model.

With the CHARM Developer Kit, you can:



Accelerate your team's software development lifecycle



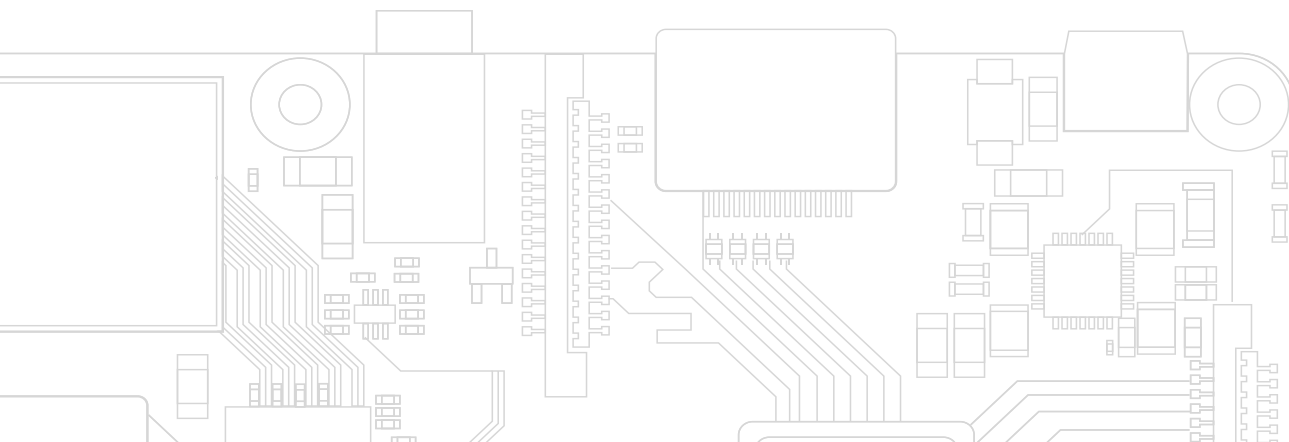
Enable advanced research on the specific devices your team needs



Add custom peripherals for targeted research on iOS and Android



Bring new devices to market faster than your competitors by avoiding reliance on hardware availability



How it works



Designed for Developers

The CHARM Developer Kit is a small appliance designed for an individual developer. The 5"x5" box comes pre-installed with the Corellium platform, as well as a specialized SDK for creating virtual models. This is the same software our own engineers use internally for creating virtualized models.



Documentation and Training

The SDK includes detailed documentation to help developers navigate the CHARM hypervisor, including a reference guide on API elements, explanatory notes, guides to design patterns, and worked examples. Corellium also provides a required training session for each CHARM SDK customer, with additional training opportunities available.



Expert Support

If your team runs into questions when building a custom model, our expert staff is here to help with a support package specifically designed to meet the needs of device modeling teams.

What's included



Each CHARM SDK unit includes:



NVIDIA Orin developer board module with 10 VM cores



Corellium software license



CHARM SDK device modeling library

About the NVIDIA Orin

CPU	12-core Arm Cortex-A78AE v8.2 64-bit
GPU	NVIDIA Ampere architecture with 2048 NVIDIA CUDA cores and 64 Tensor cores
Memory	32GB 256-bit LPDDR5
Storage	64GB eMMC 5.1 / 1TB NVMe
Networking	1× 1/2.5/5/10GbE (copper)
Power	Includes 60w power supply
USB	4x USB 2.0