**Jetson AGX Orin Series**

**Key Features**

* **Power States** (identical to Orin NX):
  + **Off**
  + **Deep Sleep (SC7)**
  + **Active** (0.01W - 30W+ range)

**Enhanced Clock Architecture**

* Same NAFLL-based design as Orin NX
* Additional **Power Efficiency Optimization**:
  + Fine-grained clock gating
  + Voltage island partitioning
  + Advanced sleep state transitions

**Advanced CPU Management**

* Inherits all Orin NX DFS/AVFS capabilities
* Extended **Core Management**:
  + Heterogeneous core scheduling
  + Big.LITTLE-style workload distribution
  + Cluster-level power gating

**Enterprise-Grade Power Control**

* Supports **Extended Power Profiles**:
  + 15W (Efficiency Mode)
  + 30W (Performance Mode)
  + 50W+ (Max-Q Mode with active cooling)
* **Safety-Critical Features**:
  + Dual-redundant power monitoring
  + Fail-safe thermal protection circuits

**Shared Characteristics**

* Both use **BPMP-RTOS** for real-time power management
* Compatible with NVIDIA's **Jetson Power Tools** for profiling
* Support **DVFS-driven clock scaling** across all compute domains
* Feature hardware-accelerated power state transitions (<100μs wake latency)

**Note**: Jetson Orin NX 16GB/8GB and AGX Orin 32GB share identical power/thermal management implementations, while AGX Orin 64GB adds enhanced power headroom for sustained workloads.