

## 2004 Product Emulator Groups (PEGs)

Emulators	Characteristics
Portable/Consumer	High-volume consumer products for which cost is the primary driver, including hand-held, battery-powered products driven by size and weight reduction.
Office/Large Business Systems	Products that seek maximum performance, with cost as a secondary consideration.
Netcom Products	Products that serve the networking, datacom and telecom markets and cover a wide range of cost and performance targets.
Automotive Products	Products that must operate in an automotive (i.e., harsh) environment.
Aerospace / Defense	Products that must operate in extreme environments.
<b>System-in-Package (SiP)*</b>	Complete function provided in a single package to system manufacturer.
<b>Medical Products*</b>	Products that must operate within a high reliability environment.

*\*New for the 2004 roadmap cycle*

## 2004 Technology Working Groups (TWGs)

<b>Business Processes/Technologies</b>
Product lifecycle information management
<b>Design Technologies</b>
Environmentally conscious electronics Modeling, simulation & design tools Thermal management
<b>Manufacturing Technologies</b>
Board assembly Final assembly Test, inspection & measurement
<b>Component/Subsystem Technologies</b>
Semiconductor devices (digital) Connectors Displays Energy storage systems Interconnect substrates – ceramic Interconnect substrates – organic Mass data storage Optoelectronics Packaging Passive components RF components & subsystems <b>Sensors*</b>

*\*New for the 2004 roadmap cycle*