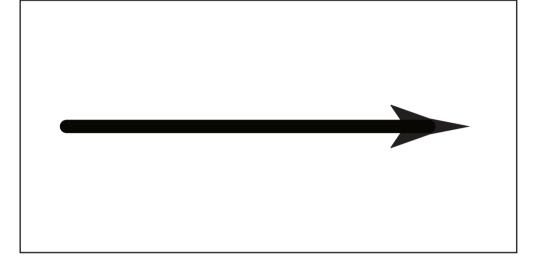
Flow Diagram Grammar

Block Diagram Sheet

Input Processing Output

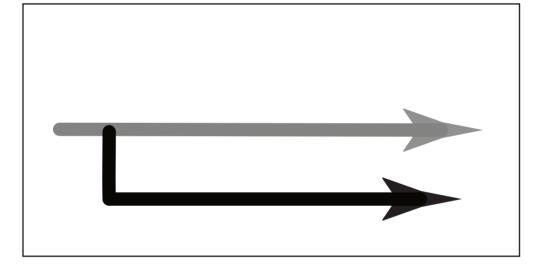
Generally inputs on the left, processing in the middle and outputs on the right. This is can be adjusted if that makes the diagram easier to understand

Block Diagram Sheet



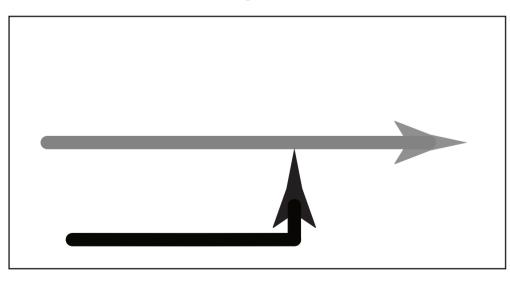
Main signal path is placed in the middle of the sheet and run right to left

Block Diagram Sheet



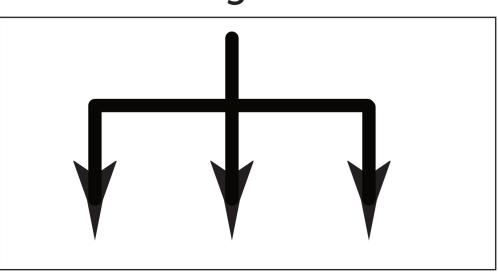
Secondary signal paths run parallel to the main signal path and branch off it

Block Diagram Sheet



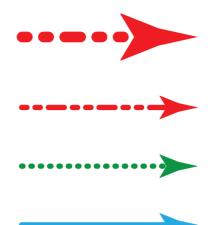
Or into it

Block Diagram Sheet



Power path is generally shown flowing vertically

Flow Arrows



Arrows show the flow of signals between system blocks. In the Flow Diagram they are intensionally limited to a small number to simplify generation

External Power



Indicates that there is a physical connection between the two blocks. Significant power flows through the signal so designs should take that into account.

Wireless

Indicates that there is no physical connection between the two blocks. Generally these are low power signal carrying information.

Wired Signal

Indicates an physical connection between the two blocks.
Generally these are low power signal carrying information.

Power Signal

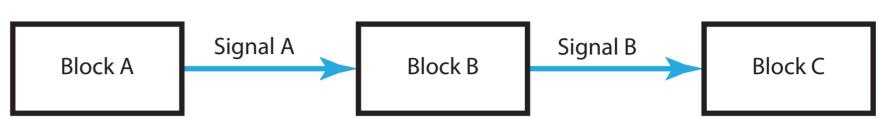
A high power signal that is come from out side the product. Examples are mains power, solar etc.

System Block



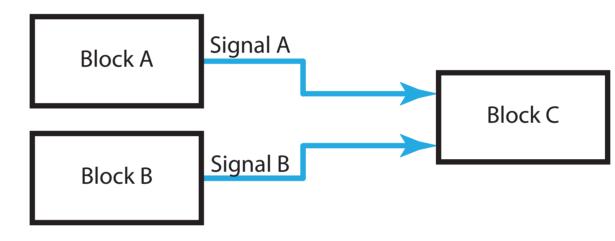
A system block captures a well defined set of functionality. In implementation it maps to a IC or a circuit structure

Series Connection



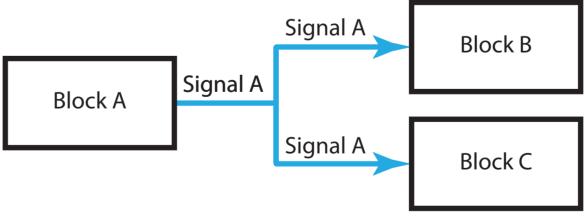
This indicates that the signal is sourced (starts) in Block A and sinks (ends) in Block B. Then a new signal is sourced from Block B and sinks in Block C. Generally signal A and B are DIFFERENT signals though they may be related.

Parallel Connection



This indicates that different signal ares sourced from Block A and Block B and sinks in Block C. Also the signals from Blocks A and B are DIFFERENT signals and unrelated

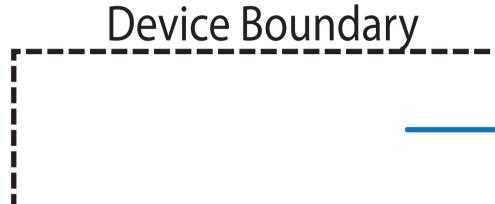
Split Connection



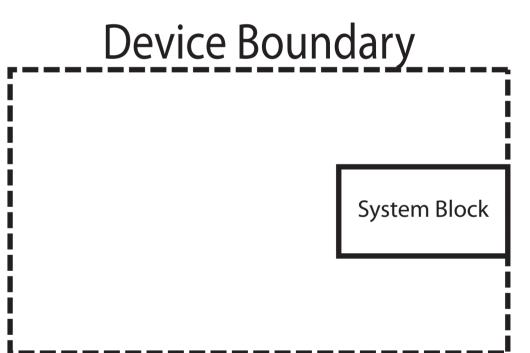
This indicates that a signal is sourced from Block A and sinks into Block B and Block C. The signals going into Blocks B and C are the SAME. Signals that are the same should always be shown connected

Device Boundary

Device boundaries are indicated with a dashed line and show the grouping of systems blocks. In implementation they map to PCBs, assemblies,



A signal that crosses a boundary indicates that there is an interface there. This interface should be enumerated in the Interface List



System Blocks that touches a Device Boundary indicate that the block is accessible by the user

