

SOM vs SBC Costs

| | Custom Design | | SOM+carrier home made | | Novasom Standard | | Novasom Custom | | Note |
|---------------------------------|---|------|---|------|---|------|---|------|---|
| Project phases | [human months, months to ge things, Cost] | Risk | [human months, months to ge things, Cost] | Risk | [human months, months to ge things, Cost] | Risk | [human months, months to ge things, Cost] | Risk | |
| Understand detail of all things | [1,2,0] | high | [1,2,0] | high | [1,2,0] | high | [1,2,0] | high | This is always critical, it does not matter which solution will be chosen |
| HW | | | | | | | | | |
| Hardware components choice | [1,1,0] | high | [1,1,0] | high | [0,0,0] | zero | [1,1,0] | low | Only the carrier is simpler, but a wrong components choice is always a big orblem and requires time to be analyzed |
| Hardware development | [3,3,0] | mid | [1,3,0] | low | [0,0,0] | zero | [1,1,0] | low | With SOM and custom Novasom Industries' board difficulty is low in time and risk |
| PCB development | [1,2,0] | mid | [1,3,0] | low | [0,0,0] | zero | [1,1,0] | low | With SOM and custom Novasom Industries' board difficulty is low in time and risk |
| First proto run | [0,2,2] | low | [0,2,2] | mid | [0,0,0] | zero | [1,1,1] | low | Proto of carrier to be integrated with SOM is more complex than a complete custom design. Cost for Custom Novasom Industries' board is fixed and includes 5 Alpha proto types |

SOM vs SBC Costs

| | Custom Design | | SOM+carrier home made | | Novasom Standard | | Novasom Custom | | Note |
|------------------------------|---------------|------|-----------------------|------|------------------|------|----------------|------|--|
| Hardware debugging | [1,2,0] | mid | [1,1,0] | low | [0,0,0] | zero | [1,1,0] | low | Carrier is simplest to debug than complete custom, no CPU... |
| Second proto run | [0,1,2] | low | [0,1,2] | low | [0,0,0] | zero | [0,1,1] | low | |
| Validation and certification | [3,6,3] | mid | [3,6,3] | mid | [0,0,0] | zero | [3,6,3] | low | For Custom Novasom Industries' board we start from an existing product very well known by us |
| Test equipment machine | [3,6,4] | mid | [3,6,4] | mid | [0,0,0] | zero | [3,6,1] | low | For Custom Novasom Industries' board we start from an existing product very well known by us |
| Third proto run | [1,3,2] | low | [1,3,2] | low | [0,0,0] | zero | [1,3,1] | low | |
| Mass production | [1,2,0] | low | [1,2,0] | low | [0,0,0] | zero | [1,2,0] | low | |
| SW | | | | | | | | | |
| O.S. Build | [2,2,0] | mid | [0,0,0] | zero | [0,0,0] | zero | [0,0,0] | zero | |
| BSP mapping | [1,1,0] | mid | [1,1,0] | mid | [1,1,0] | low | [1,1,0] | low | |
| Debugging on proto | [2,2,0] | high | [2,2,0] | high | [0,0,0] | zero | [1,1,0] | low | |
| Driver integration | [1,1,0] | low | [1,1,0] | low | [0,0,0] | zero | [1,1,0] | low | |
| Driver debugging on proto | [1,1,0] | mid | [1,1,0] | mid | [0,0,0] | zero | [1,1,0] | low | |

(Costs: 0=zero, 1=low, 2=mid, 3=high, 4=very high).