

VciRingInitiatorWrapper

1) Functional Description

This hardware component connect a VCI initiator to a RING interconnect. It can be used in conjunction with the [VciRingTargetWrapper](#) and the [VciRingRegister?](#) components to build a RING interconnect. This type of interconnect is well suited for FPGA implementations.

2) Component definition & usage

3) CABA Implementation

CABA sources

- interface :
[source:trunk/soclib/soclib/module/network_component/vci_ring_initiator_wrapper/caba/source/include/vci_ring_initiator_wrapper.h](#)
- implementation :
[source:trunk/soclib/soclib/module/network_component/vci_ring_initiator_wrapper/caba/source/src/vci_ring_initiator_wrapper.c](#)

CABA Constructor parameters

```
VciRingInitiatorWrapper(sc_module_name insname); // instance name
```

CABA Ports

- `sc_in<bool> p_clk`; *Global System Clock*
- `sc_in<bool> p_resetn`; *Global System reset*
- `soclib::caba::RingINPort<vci_param> p_ri`; *Ring input port*
- `soclib::caba::RingOUTPort<vci_param> p_ro`; *Ring output port*
- `soclib::caba::VciTarget<vci_param> p_vci`; *VCI target port*

4) TLM-T Implementation

The TLM-T implementation is not yet available. You can use the [VciVgmn](#) generic interconnect.