

# piso.v

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## AUTHORS

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## DATES

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## INFORMATION

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### Brief

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PISO (parallel in serial out) The idea is to keep this core simple, and let the control logic be handled outside of this core.

### License MIT

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## piso

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```
module piso #(
    parameter
    BUS_WIDTH
    =
    1
) ( input clk, input rstn, input ena, input load, input [BUS_WIDTH*8-1:0] {
```

parallel in serial out

### Parametes

**BUS\_WIDTH**      width of the parallel data input in bytes.

## Ports

<b>clk</b>	global clock for the core.
<b>rstn</b>	negative synchronus reset to clk.
<b>ena</b>	enable for core, use to change output rate. Enable serial shift output.
<b>load</b>	load parallel data into core. Reset for next data message to send. This can be done at any time.
<b>pdata</b>	parallel data input, registered at load only.
<b>sdata</b>	serialized data output.
<b>dcount</b>	Number of bits to shift out. When the count hits zero, the parallel data register is empty and last bit is output on sdata.