Multi-Channel RAM Controller

APB bus

APB Interface

CTRLA
INTSTA

FLTCTRL
FLTADDR
FLTPTR

Control
& status

wdata

ECC
Encoder

Fault Injection

wdata

ecc bits

Multiport
AHB bus

AHB Core

ram address and control

RAM
Memory
Banks

errors

ECC
Decoder

rdata, ecc bits

corrected
rdata