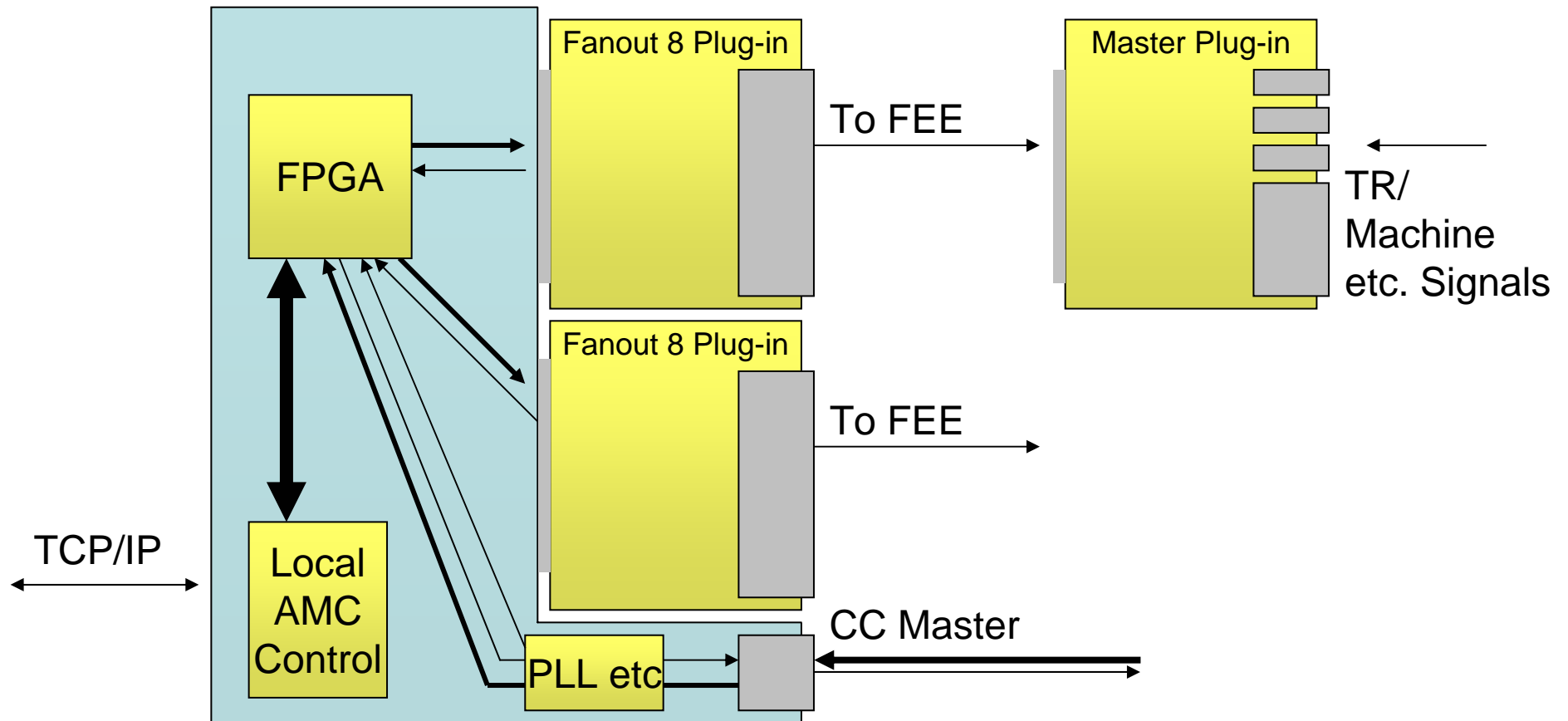


# Thoughts on C&C hardware modularity

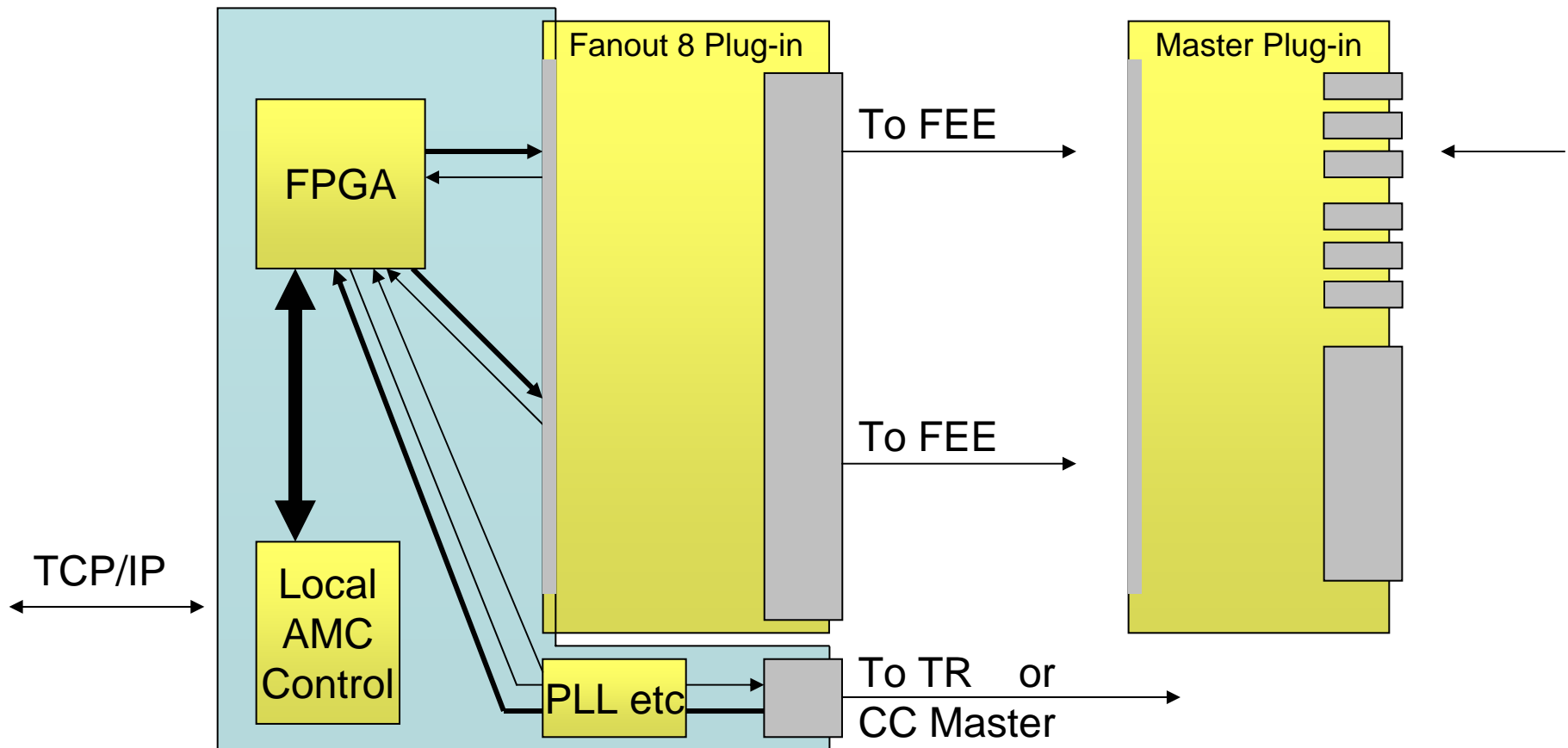
# Concept

- Master and Slave will be proper AMC
- AMC boards will be fairly 'smart':
  - Micro-controller
  - Small FPGA?
    - So no need for custom backplane as all boards will have communication built-in
- MTCA Slave is a bit of a waste of all this ...
- Maybe something more modular ...
  - Generic baseboard with plugins
  - Master = 1x fanout + 1x TR/beam interfaces plug-in
  - Slave = 2x fanout

# Vertical Plugins (double stack conn.)



# Layered plugins (single stack conn.)



# More Thoughts

- Multiple plug-ins nice as all fanouts are equal (delays etc.)
- BUT a C&C baseboard with 8x fanout integrated has other advantages:
  - Basic unit of the C&C system is one board
  - Cheaper
- Maybe play the same PCB but load only the parts required ...
  - Larger FPGA (more logic/IO) on Master