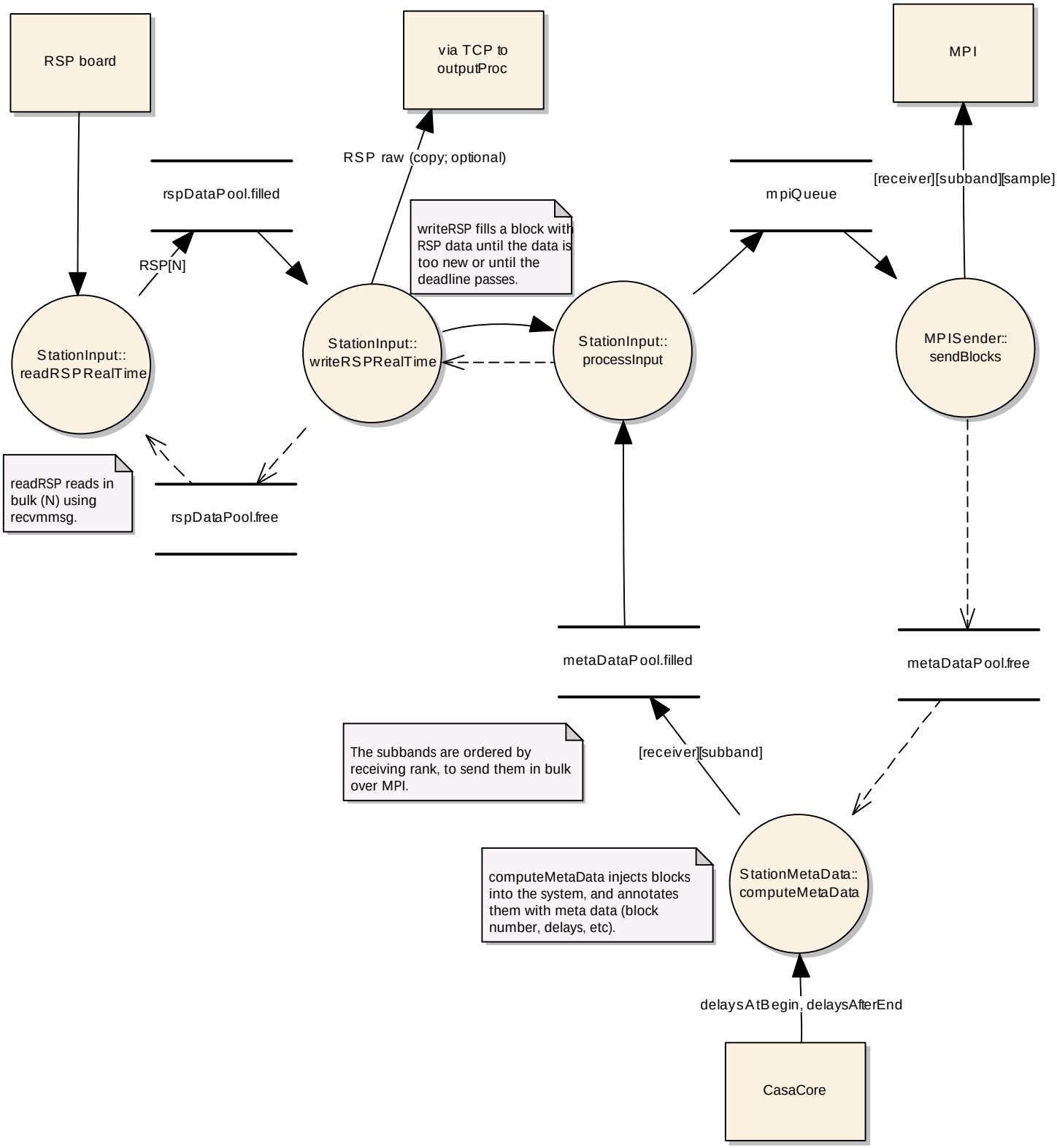
RSP board
via TCP to outputProc
MPI
RSP raw (copy; optional)
rspDataPool.filled
mpiQueue
[receiver][subband][sample]
writeRSP fills a block with RSP data until the data is too new or until the deadline passes.
RSP[N]
StationInput:: readRSPRealTime
StationInput:: writeRSPRealTime
StationInput:: processInput
MPISender:: sendBlocks
readRSP reads in bulk (N) using recvmmsg.
rspDataPool.free
metaDataPool.filled
metaDataPool.free
The subbands are ordered by receiving rank, to send them in bulk over MPI.
[receiver][subband]
computeMetaData injects blocks into the system, and annotates them with meta data (block number, delays, etc).
StationMetaData:: computeMetaData
delaysAtBegin, delaysAfterEnd
CasaCore