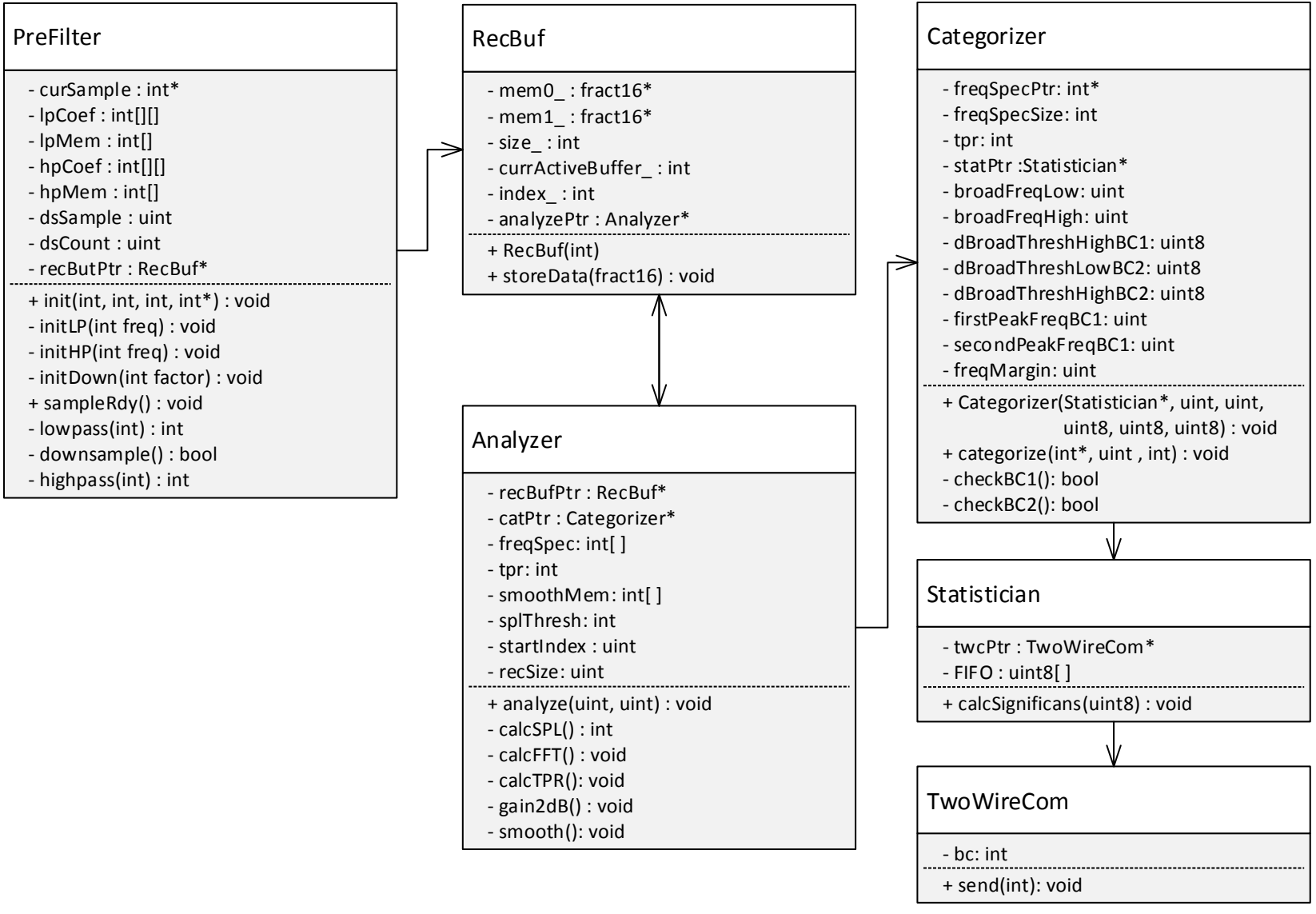
PreFilter
- curSample : int*
- lpCoef : int[][]
- lpMem : int[]
- hpCoef : int[][]
- hpMem : int[]
- dsSample : uint
- dsCount : uint
- recButPtr : RecBuf*
+ init(int, int, int, int*) : void
- initLP(int freq) : void
- initHP(int freq) : void
- initDown(int factor) : void
+ sampleRdy() : void
- lowpass(int) : int
- downsample() : bool
- highpass(int) : int
RecBuf
- mem0_ : fract16*
- mem1_ : fract16*
- size_ : int
- currActiveBuffer_ : int
- index_ : int
- analyzePtr : Analyzer*
+ RecBuf(int)
+ storeData(fract16) : void
Analyzer
- recBufPtr : RecBuf*
- catPtr : Categorizer*
- freqSpec: int[ ]
- tpr: int
- smoothMem: int[ ]
- splThresh: int
- startIndex : uint
- recSize: uint
+ analyze(uint, uint) : void
- calcSPL() : int
- calcFFT() : void
- calcTPR(): void
- gain2dB() : void
- smooth(): void
Categorizer
- freqSpecPtr: int*
- freqSpecSize: int
- tpr: int
- statPtr :Statistician*
- broadFreqLow: uint
- broadFreqHigh: uint
- dBroadThreshHighBC1: uint8
- dBroadThreshLowBC2: uint8
- dBroadThreshHighBC2: uint8
- firstPeakFreqBC1: uint
- secondPeakFreqBC1: uint
- freqMargin: uint
+ Categorizer(Statistician*, uint, uint,
uint8, uint8, uint8) : void
+ categorize(int*, uint , int) : void
- checkBC1(): bool
- checkBC2(): bool
Statistician
- twcPtr : TwoWireCom*
- FIFO : uint8[ ]
+ calcSignificans(uint8) : void
TwoWireCom
- bc: int
+ send(int): void