```scala
protected val _inputs  = mutable.HashMap.empty[String, UInt]
protected val _outputs = mutable.HashMap.empty[String, UInt]

lazy val io = IO(new Bundle {
  val ins  = Input(new PortRecord[UInt](_inputs.toSeq))
  val outs = Output(new PortRecord[UInt](_outputs.toSeq))
})
```