Notes about improving the SSM 2167 Ebay PCB by Guy ON5FM.

This module is a first class processor but as such it's not at its highest possibilities. You must replace C2 (10 or 22µF) by a 1µF to have a very fast attack time and R2 by a 120 or 180K ohm to get a deeper compression. That's the configuration that gave me the best performance on my FT-817 and my old FT-7. The gain increase on the S-meter of the other station can be as high as 1 S point. And, of course, a better readability.

You may add a 10µF (or, simply, the previous capacitor) in parallel to C2 (when 1µF) trough a switch to ground to have a simple automatic mike level regulator and a lower value resistor in parallel to R2 to have a lower compression. By the way, R2 can be simply be replaced by a 220K ohm logarithmic potentiometer. So, you will be able to control the compression from 0 (off) to around 15:1. The three pads under R2 are there for this purpose !
And I did not changed R1 as its effect seems to be marginal.