

APP0110: Notes On TM1000-BUS Reserved Pins

1.0 Background

The TM1000-BUS pinout includes the same digital I/O points as the full TM1000 Base Unit, but does not include the power supply resources and has far fewer reserved pins. On the TM1000 Base Unit the reserved pins are actually unconnected and should remain so on the module so that they may remain “reserved” for future use. On the TM1000-BUS the four reserved pins are actually connected to the internal circuitry and are used during the manufacturing configuration process. Typically, leaving these pins floating is acceptable, but in critical or noisy environments it may be advisable to tie these pins as discussed here.

2.0 Reserved Pin Connections

Figure 2.1 below shows the recommended connections of the TM1000-BUS reserved pins should it be deemed necessary to hold these pins at known logic levels. At the time of this writing, there have been no reported problems related to reserved pins left floating. Moreover, after testing a sizable sample of modules there is no evidence that any such problems may arise. However, it has also been shown that these connections will not hinder performance and in some cases its just better to be safe than sorry.

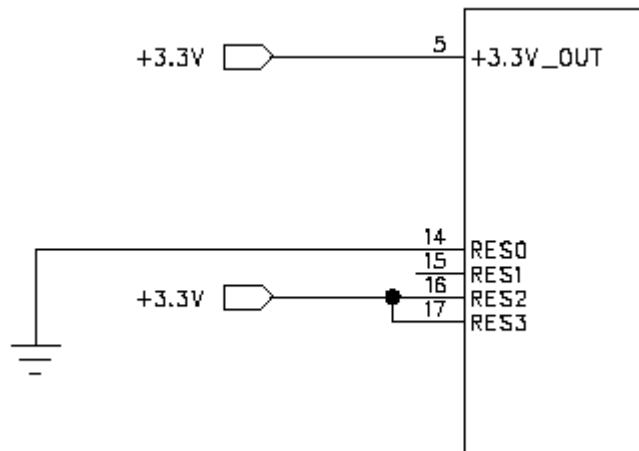


Figure 2.1 TM1000-BUS Reserved Pins

Notes:

- 1) Connect pins 16 and 17 to the TM1000-BUS +3.3V output at pin 5.
- 2) Connect pin 14 to any TM1000-BUS ground pin.
- 3) Pin 15 must be left floating.