

Advantech AE Technical Share Document

Date	2020/5/29	Release Note	■ Internal □ External
Category	■ FAQ □ SOP	Related OS	None
Abstract	Different Behavior of 7 th pin(RTS) of COM when COM ports are disabled		
Keyword	Cannot Boot up, GPU Card, Heatsink, Fan, MOSFET.		
Related Product	MIC series		

Some customers are confused MIC series have different behaviors of 7th pin(RTS pin) of COM ports on Windows OS when COM ports are disabled.

Normally, RTS pin should be pulled low when COM ports are enabled. However, it hasn't defined the status of RTS pin when COM ports are disabled.

This FAQ is for user to realize how our COM ports work at diabled status and provide a workaround solution.

■ Problem Description:

Most of MIC series have more than six COM ports, but not all of which have the same behavior of RTS pin when COM ports are disabled.

Windows disable the COM ports not connect to any device automatically, but Linux or DOS system don't. Therefore, this issue usually occurs on Windows system.

For example, MIC-7700 has 6 COM ports. When COM ports are disabled, RTS pin of COM1~3 are pulled high, but COM4~6 are pulled low.



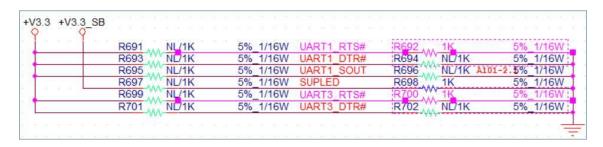


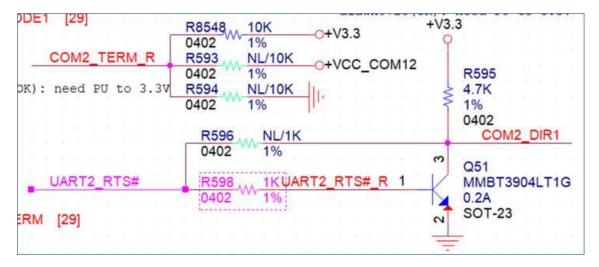


Problem Analysis:

In the case of MIC-7700, RTS pin of COM1~3 are strappin pins and connect to multiprotocol transceiver (XR34350). These strapping pins are pulled low, but transceiver will invert to high voltage.

However, COM4~6 is designed without strapping. The RTS pin will be floating when COM ports are disabled.







■ Brief Solution

If customers are confused by this issue, please contact with regional AE to customize BIOS to keep all COM ports enabled.

All COM ports will show the same behavior at enabled status.

Contact Window and File Link:

If you have any questions, please contact Dennis89.Huang #1241 You can download this file on Global AE SharePoint - FAQ