The design concept of T7M about disable WLAN function when Card Bus card or PCI Express card insert into the system

In the Card Bus standard the "CCD1#" and "CCD2#" pins have to be tire to ground in the card for all Card Bus card.
In the Express Cars standard the "CPPE#" pin have to be tire to ground in the card for all the card use PCIE interface and the "CPUSB#" pin have to be tire to ground in the card for all the card use USB interface, if the card is use both interface then "CPPE# and "CPUSB#" are both tire to ground.

All the 4 pins (CCD1#, CCD2, CPPE#, CPUSB#) are defined for the system to detect when the card insert into the system.

For the Mini Card standard the pin20 is been defined to disable all card function when this pin is in low level (ground).

Now in the T7M system we tire those signals together with diode like fig-1, so when Card Bus card or Express card insert into the T7M unit the on board WLAN card pin20 will be pull to low and the WLAN function will be disable.
All the disable actions are down by hardware only.

Fig1