

Overview

The MCS8140 contains 32-bit, 33MHz PCI Host Controller interface, this can be used as PCI Host as well as Mini-PCI Host. PCI Host can support PCI devices confirming to PCI local bus specification 2.2 / 2.3 & Mini-PCI Host can support the devices confirming to Mini-PCI specification 1.0.

General description

Figure-1 illustrates a block diagram for a design that accommodates both Mini-PCI and PCI Host in same system design. Table-1 summarizes the population options on an evaluation board. Dual PCI Host interface on MCS8140 can be used as 2 x PCI Host or 1 x PCI Host + 1 Mini-PCI Host.

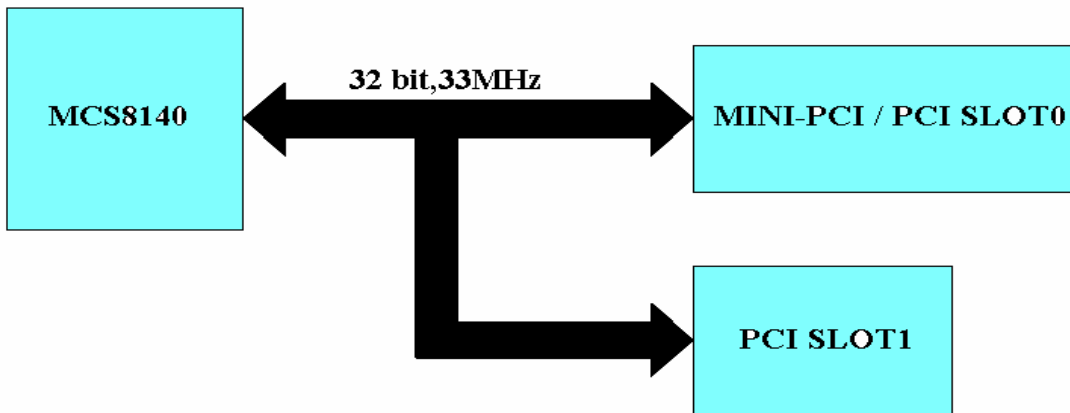


Figure-1

Note : Above implementation used on MosChip MCS8140-VOIP-EVB. Here PCI Slot1 is always PCI Host, PCI Slot0 / Mini-PCI can be arrived at other PCI Host interface through component stuff options on EVB.

MCS8140	Populate	Don't Populate
PCI-slot 0	R263,R265	R260,R266 R192
Mini-pci	R260,R266 R192	R263,R265

Table -1 : Component Stuff / No-Stuff options on EVB

The Mini-PCI PCI interface signals to MCS8140, shown below in Figure-2

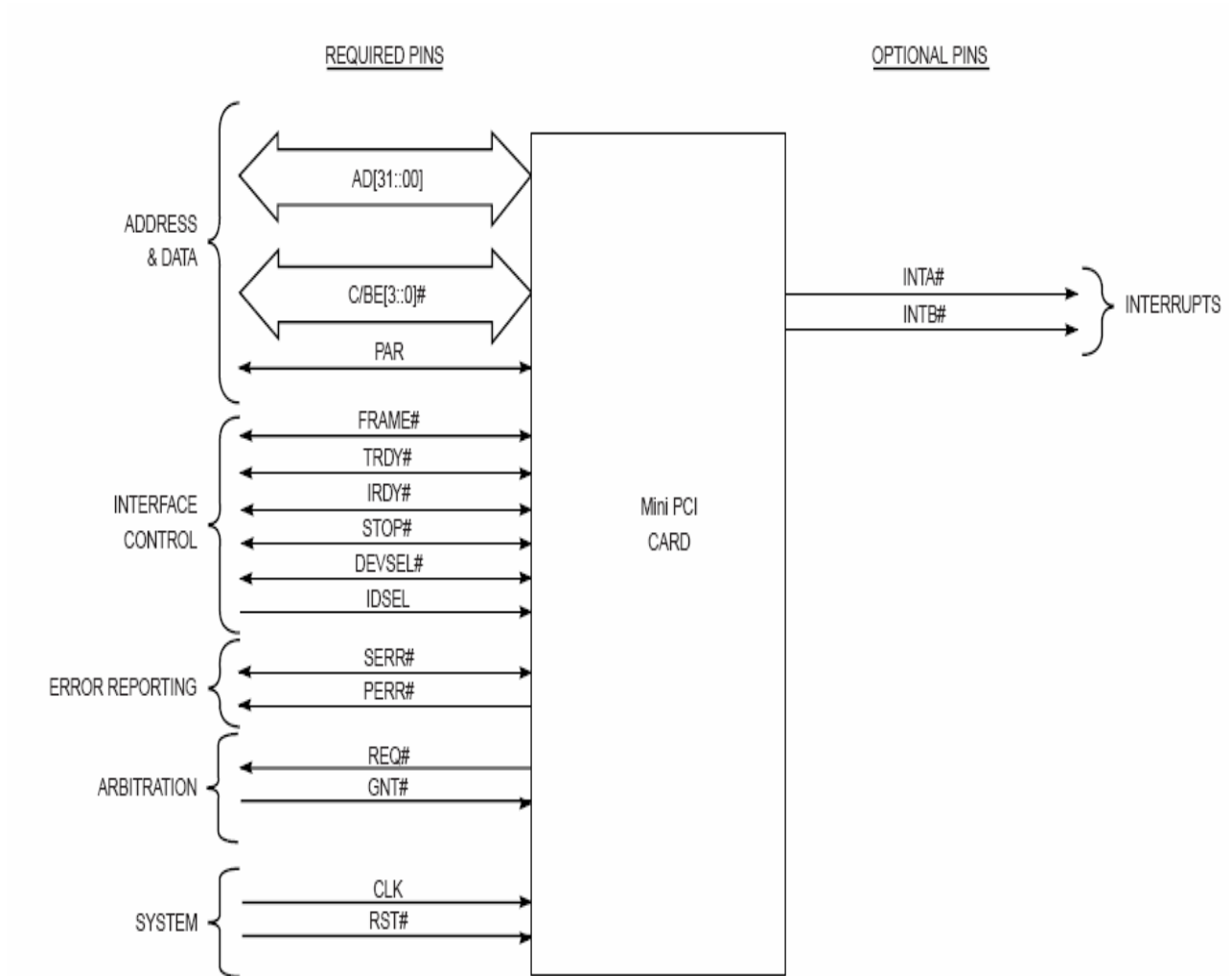


Figure-2

Application schematics for MCS8140 to Mini-PCI

Figure-3 & Fisure-4 below shows a typical interface of MCS8140 to Mini-PCI

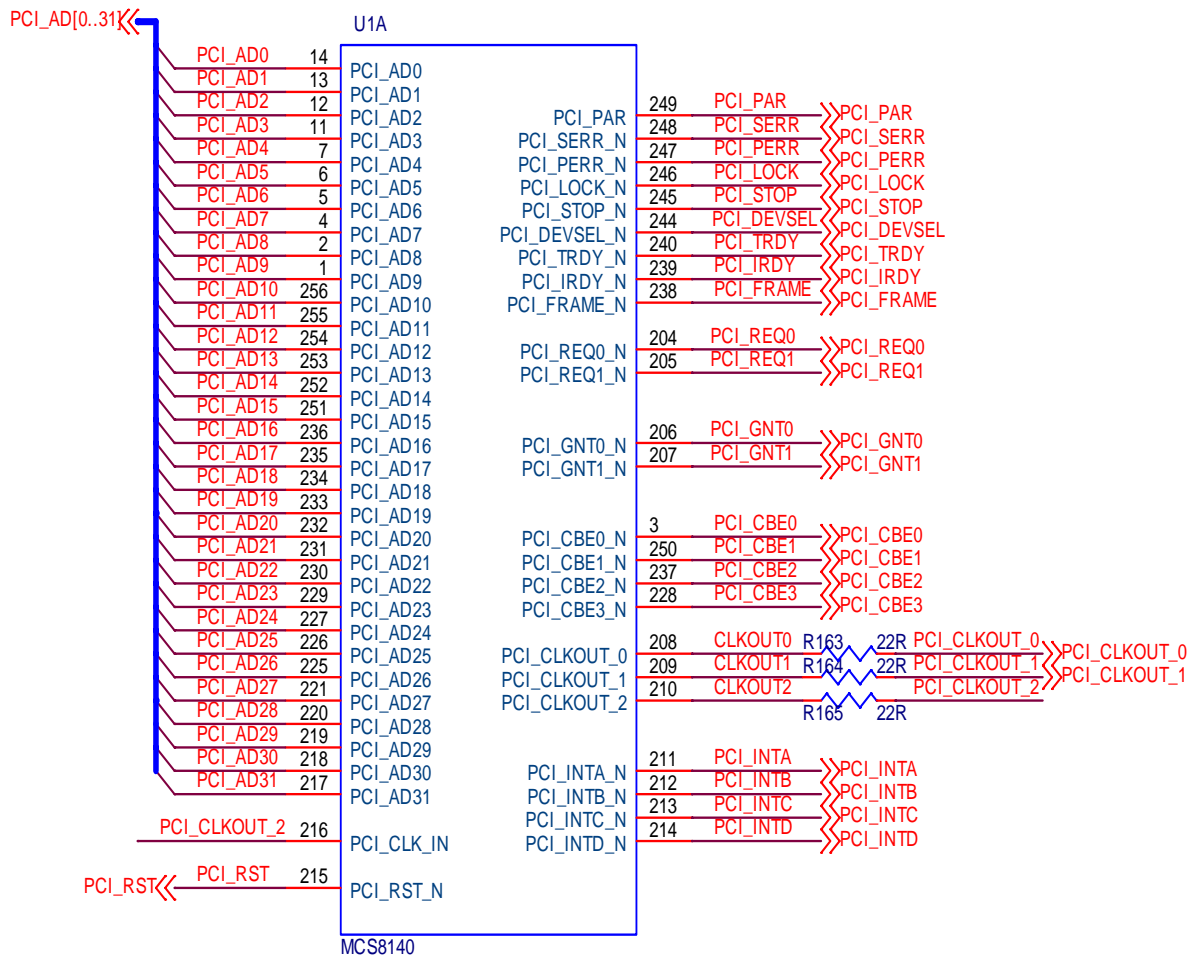


Figure-3

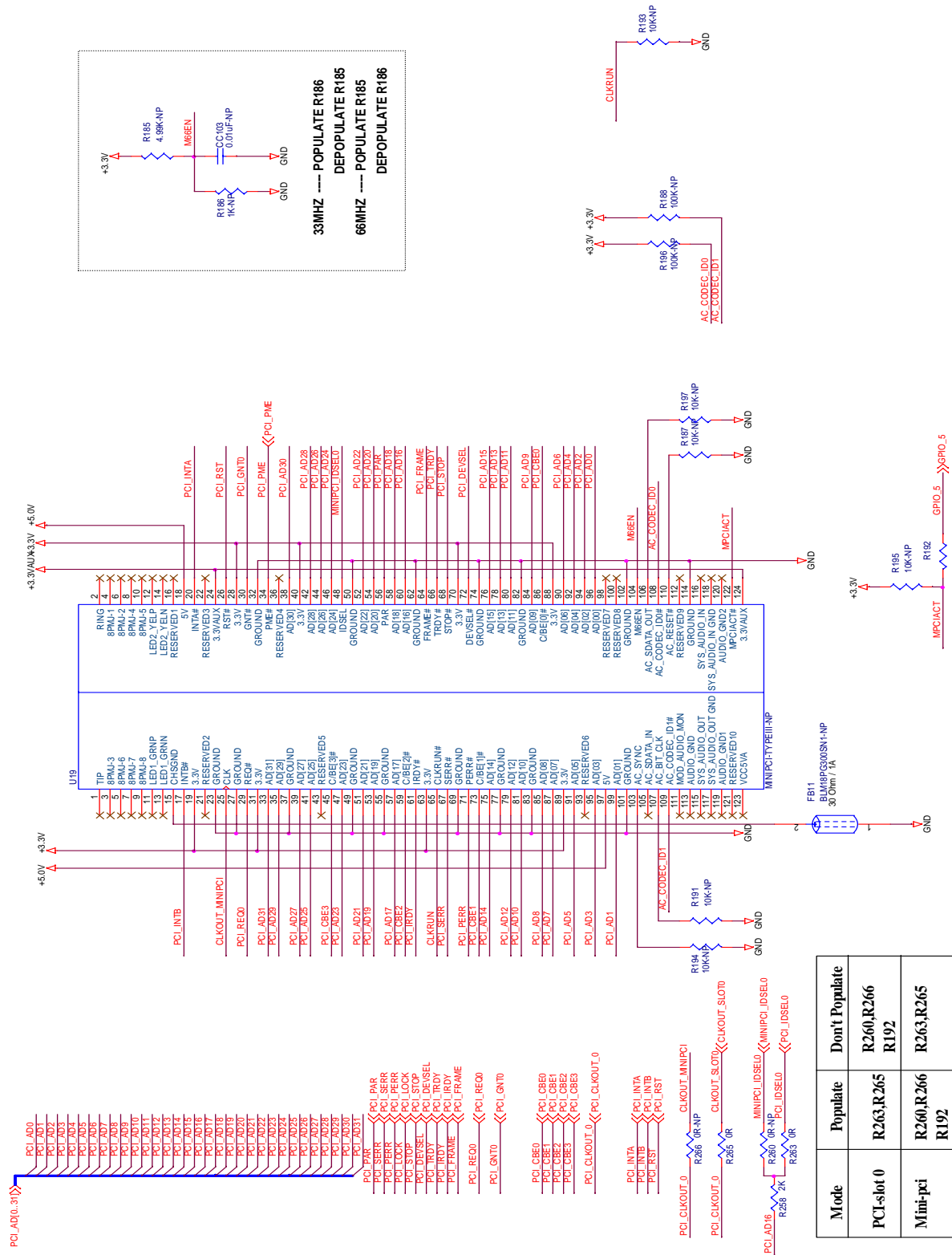


Figure-4

Technical Support :

Write to support-8140@moschip.com , for any technical queries & additional information

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