

5.2.7 Peripheral Booting

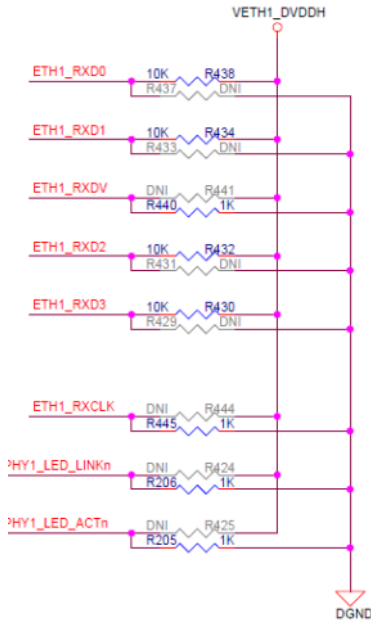
5.2.7.1 Overview

The ROM Code boots from three different peripheral interfaces:

- **EMAC:** 100/10 Mbps Ethernet, using standard TCP/IP network boot protocols BOOTP and TFTP
- **USB:** Full-speed, client mode
- **UART:** 115.2Kbps, 8-bit, no parity, 1 stop bit, no flow control

CHECK if

The purpose of booting from a peripheral interface is to download a boot image from an external host (typically a PC). This booting method is mostly used for programming flash memories connected to the device (for example, in the case of initial flashing, or for firmware updates or servicing).



27-RXD3	28-RXD2	31-RXD1	32-RXD0	
MODE3	MODE2	MODE1	MODE0	
1	1	1	0	
R430	R432	R434	R437	
1	1	0	1	
R430	R432	R433	R438	RGMI Mode-Advertise 1000 Base-T-FD-HD

Will Try this

Mode	Description
0110	Reserved - not used
0111	Chip power-down mode
1000	Reserved - not used
1001	Reserved - not used
1010	Reserved - not used
1011	Reserved - not used
1100	RGMI mode - Advertise 1000BASE-T full-duplex only
1101	RGMI mode - Advertise 1000BASE-T full- and half-duplex only
1110	RGMI mode - Advertise all capabilities (10/100/1000 speed half-full-duplex), except 1000BASE-T half-duplex
1111	RGMI mode - Advertise all capabilities (10/100/1000 speed half-full-duplex)

1.1.1 Mode Definition

Table 1-3 shows the Mode and its Description.

Table 1-3. Mode Definition

Mode (3:0)	Description	ON AM335x
0000	1000 BASE-T, RGMI	
0001	1000 BASE-T, SGMII	
0010	1000 BASE-X, RGMI, 50Ω	
0011	1000 BASE-X, SGMII, 75Ω	
0100	Converter mode between 1000 BASE-X and 1000 BASE-T media, 50Ω	
0101	Converter mode between 1000 BASE-X and 1000 BASE-T media, 75Ω	
0110	100 BASE-FX, RGMI, 50Ω	
0111	Converter mode between 100 BASE-FX and 100 BASE-TX media, 50Ω	
1011	RGMI, copper fiber auto-detection	
1110	100 BASE-FX, RGMI mode, 75Ω	
1111	Converter mode between 100 BASE-FX and 100 BASE-TX media, 75 Ω	
Others	Reserved	