Intel® 600 Series Chipset HSIO Lane Assignments (Preliminary)

HSIO Lane Assignments (lanes 0–37)

Lane	Assignment	Alt.
0	USB3.2 Gen 2x1 #1	
1	USB3.2 Gen 2x1 #2	
2	USB3.2 Gen 2x1 #3	
3	USB3.2 Gen 2x1 #4	
4	USB3.2 Gen 2x1 #5	
5	USB3.2 Gen 2x1 #6	
6	USB3.2 Gen 2x1 #7	
7	USB3.2 Gen 2x1 #8	
8	USB3.2 Gen 2x1 #9	
9	USB3.2 Gen 2x1 #10	
10	PCIe 3.0 #1	
11	PCIe 3.0 #2	
12	PCIe 3.0 #3	GbE(LAN)
13	PCIe 3.0 #4	
14	PCIe 3.0 #5	
15	PCIe 3.0 #6	
16	PCIe 3.0 #7	GbE(LAN)
17	PCIe 3.0 #8	
18	PCIe 3.0 #9	
19	PCIe 3.0 #10	
20	PCIe 3.0 #11	
21	PCIe 3.0 #12	
22	PCIe 4.0 #13	SATA #0
23	PCIe 4.0 #14	SATA #1
24	PCIe 4.0 #15	SATA #2 / GbE(LAN)
25	PCIe 4.0 #16	SATA #3
26	PCIe 3.0 #17	SATA #4
27	PCIe 3.0 #18	SATA #5
28	PCIe 3.0 #19	SATA #6
29	PCIe 3.0 #20	SATA #7
30	PCIe 4.0 #21	
31	PCIe 4.0 #22	
32	PCIe 4.0 #23	
33	PCIe 4.0 #24	
34	PCIe 4.0 #25	
35	PCIe 4.0 #26	
36	PCIe 4.0 #27	
37	PCIe 4.0 #28	

- USB 3.2 Gen2x2 Capable (lanes 0–3 and 6–9)
- *Requires 2 USB 3.2 Gen2x1 lanes for 20G
- Port width configurations: x4 / x2 groupings across PCIe lanes

NVMe Storage Devices supported on PCIe ports via Intel® VMD by Intel® RST
PCIe Storage port configurable as x2/x4 M.2

SKU Lane Assignments

SKU	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37
H610	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen1x1	USB3.2 Gen1x1	N/A	N/A	N/A	N/A	N/A	N/A	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	N/A	N/A	N/A	N/A	N/A	N/A	LAN Only	N/A	SATA	SATA	SATA	SATA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
B660	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	N/A	N/A	N/A	N/A	USB3.2 Gen1x1	USB3.2 Gen1x1	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	N/A	N/A	N/A	N/A	N/A	N/A	PCIe 4.0 LAN	PCIe 4.0	SATA	SATA	SATA	SATA	N/A	N/A	N/A	N/A	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0
H670	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	N/A	N/A	USB3.2 Gen1x1	USB3.2 Gen1x1	USB3.2 Gen1x1	USB3.2 Gen1x1	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	N/A	N/A	N/A	N/A	PCIe 4.0 SATA	PCIe 4.0 SATA	PCIe 4.0 SATA LAN	PCIe 4.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0
Q670	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen1x1	USB3.2 Gen1x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	N/A	N/A	N/A	N/A	PCIe 4.0 SATA	PCIe 4.0 SATA	PCIe 4.0 SATA LAN	PCIe 4.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0
Z690	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 4.0 SATA	PCIe 4.0 SATA	PCIe 4.0 SATA LAN	PCIe 4.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0
W680	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	USB3.2 Gen2x1	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0 LAN	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 3.0	PCIe 4.0 SATA	PCIe 4.0 SATA	PCIe 4.0 SATA LAN	PCIe 4.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 3.0 SATA	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0	PCIe 4.0