H8/H89 I/O Port Assignments
May 28, 2021

NOTE: Some boards can be configured for any/many port ranges, however available software may not support all ranges. Unless otherwise indicated by "*", boards are shown in the port ranges required/expected by software.

Software is not able to detect port ranges of hardware. The dipswitches at port 362Q allow for software detection of the configuration of port ranges 170Q and 174Q only. Zx80 CPU boards V4 and later allow for extended port configuration for ranges 270Q and 274Q for certain devices. With the exception of H67 and H47 devices, software tends to hard-code the port ranges.

Port	Board	Board 2
TBD(4)	HA-8-2 ADC/DAC	
000Q	512K MMU	ECS PC-12 CARD
001Q	512K MMU	ECS PC-12 CARD
002Q	512K MMU	ECS PC-12 CARD
003Q	512K MMU	ECS PC-12 CARD
004Q	512K MMU	ECS PC-12 CARD
005Q	512K MMU	ECS PC-12 CARD
006Q	512K MMU	ECS PC-12 CARD
007Q	512K MMU	ECS PC-12 CARD
010Q		ECS PC-12 CARD
011Q		ECS PC-12 CARD
012Q		ECS PC-12 CARD
013Q		ECS PC-12 CARD
014Q		ECS PC-12 CARD
015Q		ECS PC-12 CARD
016Q		ECS PC-12 CARD
017Q		ECS PC-12 CARD
020Q		ECS PC-12 CARD
021Q		ECS PC-12 CARD
022Q		ECS PC-12 CARD
023Q		ECS PC-12 CARD
024Q		
025Q		
026Q		
027Q		
030Q	82C55 CARD *H	
031Q	82C55 CARD *H	
032Q	82C55 CARD *H	
033Q	82C55 CARD *H	
034Q	82C55 CARD *G	
035Q	82C55 CARD *G	
036Q	82C55 CARD *G	
037Q	82C55 CARD *G	
040Q		
041Q		
042Q		

043Q			
044Q	82C55 CARD *F		
045Q	82C55 CARD *F		
046Q	82C55 CARD *F		
047Q	82C55 CARD *F		
050Q	82C55 CARD *E		
051Q	82C55 CARD *E		
052Q	82C55 CARD *E		
053Q	82C55 CARD *E		
054Q	82C55 CARD *D		
055Q	82C55 CARD *D		
056Q	82C55 CARD *D		
057Q	82C55 CARD *D		
060Q	82C55 CARD *C		
061Q	82C55 CARD *C		
062Q	82C55 CARD *C		
063Q	82C55 CARD *C		
064Q			
065Q			
066Q			
067Q			
070Q	82C55 CARD *B		
071Q	82C55 CARD *B		
072Q	82C55 CARD *B		
073Q	82C55 CARD *B		
074Q			
075Q			
076Q			
077Q	TRIONYX Z-H8 CTL PORT		
100Q	H8xSPI (WIZNET/SDCard)		
101Q	H8xSPI (WIZNET/SDCard)		
102-167Q	--unused--		
170Q	H37	H67 *1	H47 *1
171Q	H37	H67 *1	H47 *1
172Q	H37	H67 *1	H47 *1
173Q	H37	H67 *1	H47 *1
174Q	H17	H67 *2	H47 *2
175Q	H17	H67 *2	H47 *2
176Q	H17	H67 *2	H47 *2
177Q	H17	H67 *2	H47 *2
200Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	H8-AM9511-APU
201Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	H8-AM9511-APU
202Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	H8-AM9511-APU
203Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	H8-AM9511-APU
204Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
205Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
206Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
207Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
210Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	

211Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
212Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
213Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
214Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
215Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
216Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
217Q	H8-Z80-64 GIDE	H8_DUAL_GIDE	
220Q		H8_DUAL_GIDE	H8 SPEED BOARD
221Q		H8_DUAL_GIDE	
222Q		H8_DUAL_GIDE	
223Q		H8_DUAL_GIDE	
224Q		H8_DUAL_GIDE	
225Q		H8_DUAL_GIDE	
226Q		H8_DUAL_GIDE	
227Q		H8_DUAL_GIDE	
230Q		H8_DUAL_GIDE	
231Q		H8_DUAL_GIDE	
232Q		H8_DUAL_GIDE	
233Q		H8_DUAL_GIDE	
234Q		H8_DUAL_GIDE	
235Q		H8_DUAL_GIDE	
236Q		H8_DUAL_GIDE	
237Q		H8_DUAL_GIDE	
240Q	RTC72421		
241Q	RTC72421		
242Q	RTC72421		
243Q	RTC72421		
244Q	RTC72421		
245Q	RTC72421		
246Q	RTC72421		
247Q	RTC72421		
250Q	RTC72421		
251Q	RTC72421		
252Q	RTC72421		
253Q	RTC72421		
254Q	RTC72421		
255Q	RTC72421		
256Q	RTC72421		
257Q	RTC72421		
260Q	H8 USB		
261Q	H8 USB		
262Q	H8 USB		
263Q	H8 USB		
264Q			
265Q			
266Q			
267Q			
270Q	H67 *3	HA-8-3 GRAPHICS CARD	
271Q	H67 *3	HA-8-3 GRAPHICS CARD	

272Q	H67 *3	HA-8-3 GRAPHICS CARD	
273Q	H67 *3	HA-8-3 GRAPHICS CARD	
274Q	H67 *4	HA-8-3 GRAPHICS CARD	
275Q	H67 *4	HA-8-3 GRAPHICS CARD	
276Q	H67 *4	HA-8-3 GRAPHICS CARD	
277Q	H67 *4		
300-317Q	--unused--		
320Q	"ALT" SERIAL PORT		82C55 CARD *A
321Q	"ALT" SERIAL PORT		82C55 CARD *A
322Q	"ALT" SERIAL PORT		82C55 CARD *A
323Q	"ALT" SERIAL PORT		82C55 CARD *A
324Q	"ALT" SERIAL PORT		
325Q	"ALT" SERIAL PORT		
326Q	"ALT" SERIAL PORT		
327Q	"ALT" SERIAL PORT		
330Q	"MODEM" SERIAL PORT	VDIP1/FT245R USB	
331Q	"MODEM" SERIAL PORT	VDIP1/FT245R USB	
332Q	"MODEM" SERIAL PORT	VDIP1/FT245R USB	
333Q	"MODEM" SERIAL PORT		
334Q	"MODEM" SERIAL PORT		
335Q	"MODEM" SERIAL PORT		
336Q	"MODEM" SERIAL PORT		
337Q	"MODEM" SERIAL PORT		
340Q	"LP" SERIAL PORT		
341Q	"LP" SERIAL PORT		
342Q	"LP" SERIAL PORT		
343Q	"LP" SERIAL PORT		
344Q	"LP" SERIAL PORT		
345Q	"LP" SERIAL PORT		
346Q	"LP" SERIAL PORT		
347Q	"LP" SERIAL PORT		
350Q	"CONSOLE" SERIAL PORT		
351Q	"CONSOLE" SERIAL PORT		
352Q	"CONSOLE" SERIAL PORT		
353Q	"CONSOLE" SERIAL PORT		
354Q	"CONSOLE" SERIAL PORT		
355Q	"CONSOLE" SERIAL PORT		
356Q	"CONSOLE" SERIAL PORT		
357Q	"CONSOLE" SERIAL PORT		
360Q	H8 FRONT PANEL + CTL		
361Q	H8 FRONT PANEL		
362Q	H8/H89 CTL/DIPSW PORT	+ Zx80 V3/4 SPEED CONTROL	
363Q		Zx80 V4 CLOCK ENABLE	
364Q			
365Q			
366Q			
367Q			
370Q	H8-5 CASS SERIAL PORT	H8-2 PARALLEL CH-0	
371Q	H8-5 CASS SERIAL PORT	H8-2 PARALLEL CH-0	

372Q	H8-5 CONSOLE SERIAL	
373Q	H8-5 CONSOLE SERIAL	
374Q		H8-2 PARALLEL CH-1
375Q		H8-2 PARALLEL CH-1
376Q		H8-2 PARALLEL CH-2
377Q		H8-2 PARALLEL CH-2

*1 *2 *3 *4 – Card is configuration for alternate I/O ports.
*A..*H – Port ranges may be assigned to chips as desired. A maximum of 5 ranges can be used.