Codigo de Instruccion	Nemonico	Instruccion	Significado
10000000000xxxxxxxxxx	JMP X	Unconditional Jump	PC = X
10100000000xxxxxxxxxx	JZE X	Jumo if Working Register is Zero	IF W=0 THEN PC=X
11000000000xxxxxxxxxx	JNE X	Jump if Working Register is Negative	IF W15=0 THEN PC=X
11100000000xxxxxxxxxx	JCY X	Jump if Carry	IF CY THEN PC=X
01000000000yyyyyyyyyy	MOM Y,W	Move Working Register to Memory	M(Y) = W
01010000000yyyyyyyyyy	MOM W,Y	Move Memory to Working Register	W = M(Y)
01100000000iiiiijjjjj	ADW Ri,Rj	Add with Carry Reg. J with Working Reg. to Reg I	Ri = W + Rj + CY
01110000000ssssssssss	BSR S	Unconditional Branch (Relative) to Subroutine S	Save PC; PC = PC + S
00100000000iiiiijjjjj	MOV Ri,Rj	Move Register J to Register I {Ri, Rj: 0 a 27}	Ri = Rj
00100000000 1111ijjjjj	MOV POi,Rj	Move Register J to Output Port I	POi = Rj
00100000000iiiii1110j	MOV Ri,PIj	Move Input Port J to Register I	Ri = PIj
00100000000 1111i1110j	MOV PO,PIj	Move Input Port J to Output Port I	POi = PIj
00110000000iiiii00000	MOV Ri,W	Move working Register to Register I	Ri = W
00110000000 1111i00000	MOV POi,W	Move Working to Output Port I	POi = W
000100kkkkkkkkkkkkkk	MOV W,#K	Move Constant to Working Register	W = K
000101kkkkkkkkkkkkkk	ANK W,#K	AND Constant wit Working Register	W = W & K
000110kkkkkkkkkkkkkk	ORK W,#K	OR Constant with Working Register	W = W OR K
000111kkkkkkkkkkkkkk	ADK W,#K	ADD with Carry Constant with Working Register	W = W + K + CY
00001000000000000jjjjj	MOV W,Rj	Move Register J to Working Register	W = Rj
00001000000000001110j	MOV W,PIj	Move Input Port J to Working Register	W = PIj
00001010000000000jjjjj	ANR W,Rj	AND Register J with Working Register	W = W & Rj
00001100000000000jjjjj	ORR W,Rj	OR Register J with Working Register	W = W OR Rj
00001110000000000jjjjj	ADR W,Rj	ADD with Carry Register J with Working Register	W = W + Rj + CY
00000000000000000000	CPL W	Complement Working Register	W = /W
00000010000000000000	CLR CY	Clear Carry	CY = 0
00000100000000000000	SET CY	Set Carry	CY = 1
00000110000000000000	RET	Return From Subroutine	PC = Latest Stored PC {+1}

Nemonico	Significado	Funcion ALU	ALUC	SH	KMx	MR	MW	B Bus	C Bus	Type	A Bus	Palabra MIR
JMP X	PC = X	-	0000	00	0	0	0	000000	100011	1000000	00000	000000000000001000111000000000000
JZE X	IF W=0 THEN PC=X	-	0000	00	0	0	0	000000	100011	1000001	00000	000000000000001000111000000100000
JNE X	IF W15=0 THEN PC=X	-	0000	00	0	0	0	000000	100011	1000001	00000	000000000000001000111000000100000
JCY X	IF CY THEN PC=X	-	0000	00	0	0	0	000000	100011	1010000	00000	000000000000001000111010000000000
MOM Y,W	M(Y) = W	-	0000	00	0	0	1	000000	100011	0000001	00000	000000010000001000110000000100000
MOM W,Y	W = M(Y)	-	0000	00	0	1	0	100010	100011	0000010	00000	000000010100010100011000001000000
ADW Ri,Rj	Ri = W + Rj + CY	A + B + Cy	0101	00	0	0	0	000000	000000	0111101	00000	010100000000000000000011110100000
BSR S	Save PC; PC = PC + S	-	0000	00	0	0	0	000000	100011	1000000	00000	000000000000001000111000000000000
MOV Ri,Rj	Ri = Rj	A	0000	00	0	0	0	000000	000000	0001100	00000	000000000000000000000000110000000
MOV POi,Rj	POi = Rj	A	0000	00	0	0	0	000000	000000	0001100	00000	000000000000000000000000110000000
MOV Ri,PIj	Ri = PIj	A	0000	00	0	0	0	000000	000000	0001100	00000	000000000000000000000000110000000
MOV PO,PIj	POi = PIj	A	0000	00	0	0	0	000000	000000	0001100	00000	000000000000000000000000110000000
MOV Ri,W	Ri = W	B	0001	00	0	0	0	100010	000000	0001001	00000	000100000100010000000000100100000
MOV POi,W	POi = W	B	0001	00	0	0	0	100010	000000	0001001	00000	000100000100010000000000100100000
MOV W,#K	W = K	A	0000	00	1	0	0	000000	100010	0000010	00000	000000100000000100010000001000000
ANK W,#K	W = W & K	A & B	0111	00	1	0	0	100010	100010	0000011	00000	011100100100010100010000001100000
ORK W,#K	W = W OR K	A OR B	0110	00	1	0	0	100010	100010	0000011	00000	011000100100010100010000001100000
ADK W,#K	W = W + K + CY	A + B + Cy	0101	00	1	0	0	100010	100010	0110011	00000	010100100100010100010011001100000
MOV W,Rj	W = Rj	A	0000	00	0	0	0	000000	100010	0000110	00000	000000000000000100010000011000000
MOV W,PIj	W = PIj	A	0000	00	0	0	0	000000	100010	0000110	00000	000000000000000100010000011000000
ANR W,Rj	W = W & Rj	A & B	0111	00	0	0	0	100010	100010	0000111	00000	011100000100010100010000011100000
ORR W,Rj	W = W OR Rj	A OR B	0110	00	0	0	0	100010	100010	0000111	00000	011000000100010100010000011100000
ADR W,Rj	W = W + Rj + CY	A + B + Cy	0101	00	0	0	0	100010	100010	0110111	00000	010100000100010100010011011100000
CPL W	W = /W	/B	0011	00	0	0	0	000000	100010	0000011	00000	001100000000000100010000001100000
CLR CY	CY = 0	-	0000	00	0	0	0	000000	100011	0100000	00000	000000000000001000110100000000000
SET CY	CY = 1	-	0000	00	0	0	0	000000	100011	0100000	00000	000000000000001000110100000000000
RET	PC = Latest Stored PC {+1}	-	0000	00	0	0	0	000000	100011	1000000	00000	000000000000001000111000000000000