

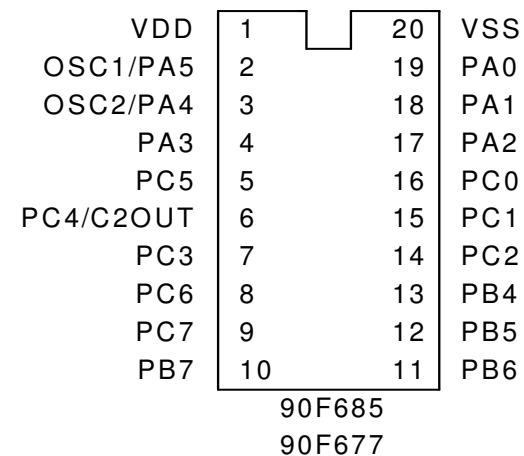
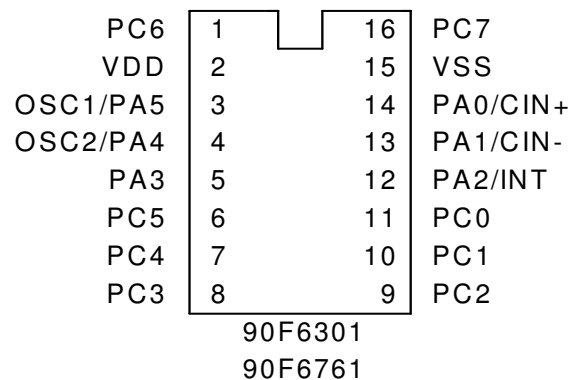
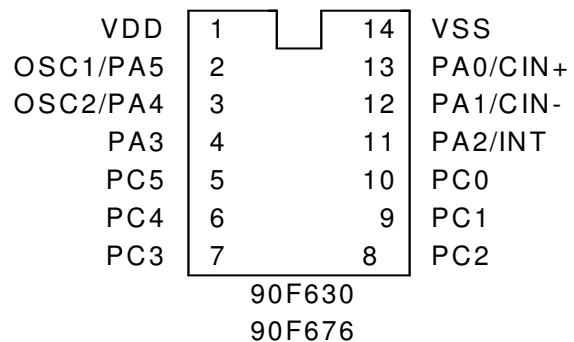


CYICT PRODUCT LIST

Feature \ Device NO.	CYICT 90F630	CYICT 90F676	CYICT 90F6301	CYICT 90F6761	CYICT 90F677	CYICT 90F685
ROM	Flash 1.0K	Flash 1.0K	Flash 2.0K	Flash 2.0K	Flash 2.0K	Flash 4.0K
EEPROM	128 Bytes	128 Bytes	128 Bytes	128 Bytes	256 Bytes	256 Bytes
RAM	64 Bytes	64 Bytes	96 Bytes	96 Bytes	128 Bytes	256 Bytes
Operating Voltage (V)	2.3 ~ 5.5	2.3 ~ 5.5	2.3 ~ 5.5	2.3 ~ 5.5	2.3 ~ 5.5	2.3 ~ 5.5
Operating Freq. (Hz)	DC~20M	DC~20M	DC~20M	DC~20M	DC~20M	DC~20M
I/O Pin	11	11	13	13	17	17
Input Pin Only	1	1	1	1	1	1
Stack levels	8	8	8	8	8	8
WDT/PED/POR	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes	Yes/Yes/Yes
Oscillator type	LF,HF,XT,RC	LF,HF,XT,RC	LF,HF,XT,RC	LF,HF,XT,RC	HF, XT,LF, RC	HF, XT,LF, RC
Internal RC	IRC 4MHz	IRC 4MHz	IRC 4MHz	IRC 4MHz	IRC 8MHz~32K	IRC 8MHz~32K
Sleep current	<1.0uA@5V	<1.0uA@5V	<1.0uA@5V	<1.0uA@5V	<1.0uA@5V	<1.0uA@5V
Interrupt source	7	7	7	7	8	10
10-bit A/D	-	8 CH.	-	8 CH.	12 CH.	12 CH.
Comparators	1	1	1	1	2	2
CCP	-	-	-	-	-	1
Operating Temperature	- 40℃ ~ 80℃	- 40℃ ~ 80℃	- 40℃ ~ 80℃	- 40℃ ~ 80℃	- 40℃ ~ 80℃	- 40℃ ~ 80℃
Timer	8-bit x 1 , 16-bit x 1	8-bit x 1 , 16-bit x 1	8-bit x 1 , 16-bit x 1	8-bit x 1 , 16-bit x 1	8-bit x 1 , 16-bit x 1	8-bit x 2 , 16-bit x 1
Pin count	14	14	16	16	20	20
Package Type	DIP,SOP	DIP,SOP	DIP,SOP,SSOP	DIP,SOP,SSOP	DIP,SOP,SSOP	DIP,SOP,SSOP



PIN Diagrams





MEMORY MAP

90F630/676

ADDR	BAK0	BAK1	ADDR
00H	IADD	IADD	80H
01H	TMR0	OPTR	81H
02H	PCL	PCL	82H
03H	STATUS	STATUS	83H
04H	RSR	RSR	84H
05H	PORTA	PTIO A	85H
06H			86H
07H	PORTC	PTIO C	87H
08H			88H
09H			89H
0AH	PCH	PCH	8AH
0BH	INTCTL	INTCTL	8BH
0CH	PIF1	PIE1	8CH
0DH			8DH
0EH	TMR1L	PWCTL	8EH
0FH	TMR1H		8FH
10H	T1CTL	EOSCCTL	90H
11H		ADINS	91H
12H			92H
13H			93H
14H			94H
15H		PAPHR	95H
16H		PAINTR	96H
17H			97H
18H			98H
19H	CMCTL	VRCTL	99H
1AH		EEDATA	9AH
1BH		EEADR	9BH
1CH		EECTL1	9CH
1DH		EECTL2	9DH
1EH	*ADRESH	*ADRESL	9EH
1FH	*ADCTL0	*ADCTL1	9FH
20H	通用 寄存器 64 字節	訪問 20H ~ 5FH	A0H
5FH			DFH
60H			F0H
7FH			FFH

* 90F676 only

90F6301/90F6761

ADDR	BAK0	BAK1	ADDR
00H	IADD	IADD	80H
01H	TMR0	OPTR	81H
02H	PCL	PCL	82H
03H	STATUS	STATUS	83H
04H	RSR	RSR	84H
05H	PORTA	PTIO A	85H
06H			86H
07H	PORTC	PTIO C	87H
08H			88H
09H			89H
0AH	PCH	PCH	8AH
0BH	INTCTL	INTCTL	8BH
0CH	PIF1	PIE1	8CH
0DH			8DH
0EH	TMR1L	PWCTL	8EH
0FH	TMR1H		8FH
10H	T1CTL	EOSCCTL	90H
11H		ADINS	91H
12H			92H
13H			93H
14H			94H
15H		PAPHR	95H
16H		PAINTR	96H
17H			97H
18H			98H
19H	CMCTL	VRCTL	99H
1AH		EEDATA	9AH
1BH		EEADR	9BH
1CH		EECTL1	9CH
1DH		EECTL2	9DH
1EH	**ADRESH	**ADRESL	9EH
1FH	**ADCTL0	**ADCTL1	9FH
120H	通用 寄存器 96 字節	訪問 20H ~ 7FH	1A0H
17FH			1FFH

** 90F6761 only



90F677

ADDR	BAK0	BAK1	ADDR
00H	IADD	IADD	80H
01H	TMR0	OPTR	81H
02H	PCL	PCL	82H
03H	STATUS	STATUS	83H
04H	RSR	RSR	84H
05H	PORTA	PTIO A	85H
06H	PORTB	PTIO B	86H
07H	PORTC	PTIO C	87H
08H			88H
09H			89H
0AH	PCH	PCH	8AH
0BH	INTCTL	INTCTL	8BH
0CH	PIF1	PIE1	8CH
0DH	PIF2	PIE2	8DH
0EH	TMR1L	PWCTL	8EH
0FH	TMR1H	OSCCTL	8FH
10H	T1CTL	EOSCCTL	90H
11H			91H
12H			92H
13H			93H
14H			94H
15H		PAPHR	95H
16H		PAINTR	96H
17H		WDTCTL	97H
18H			98H
19H			99H
1AH			9AH
1BH			9BH
1CH			9CH
1DH			9DH
1EH	ADRESH	ADRESL	9EH
1FH	ADCTL0	ADCTL1	9FH
20H	通用 寄存器 96 字節	通用 寄存器 32 字節	A0H
			BFH
7FH		訪問 70-7FH	F0H FFH

ADDR	BAK2	BAK3	ADDR
100H	IADD	IADD	180H
101H	TMR0	OPTR	181H
102H	PCL	PCL	182H
103H	STATUS	STATUS	183H
104H	RSR	RSR	184H
105H	PORTA	PTIO A	185H
106H	PORTB	PTIO B	186H
107H	PORTC	PTIO C	187H
108H			188H
109H			189H
10AH	PCH	PCH	18AH
10BH	INTCTL	INTCTL	18BH
10CH	EEDATA	EECTL1	18CH
10DH	EEADR	EECTL2	18DH
10EH			18EH
10FH			18FH
110H			190H
111H			191H
112H			192H
113H			193H
114H			194H
115H	PBPHR		195H
116H	PBINTR		196H
117H			197H
118H	VRCTL		198H
119H	CM1CTL0		199H
11AH	CM2CTL0		19AH
11BH	CM2CTL1		19BH
11CH			19CH
11DH			19DH
11EH	ADINSL	SRCTL	19EH
11FH	ADINSH		19FH
120H			1A0H
170H 17FH	訪問 70-7FH	訪問 70-7FH	1F0H 1FFH



90F685

ADDR	BANK 0	BANK 1	ADDR
00H	IADD	IADD	80H
01H	TMR0	OPTR	81H
02H	PCL	PCL	82H
03H	STATUS	STATUS	83H
04H	RSR	RSR	84H
05H	Port A	PTIO A	85H
06H	Port B	PTIO B	86H
07H	Port C	PTIO C	87H
08H			88H
09H			89H
0AH	PCH	PCH	8AH
0BH	INTCTL	INTCTL	8BH
0CH	PIF1	PIE1	8CH
0DH	PIF2	PIE2	8DH
0EH	TMR1L	PWCTL	8EH
0FH	TMR1H	OSCCTL	8FH
10H	T1CTL	EOSCCTL	90H
11H	TMR2		91H
12H	T2CTL	PR2	92H
13H			93H
14H			94H
15H	CCP1L	PAPHR	95H
16H	CCP1H	PAINTR	96H
17H	CCP1CTL	WDTCTL	97H
18H			98H
19H			99H
1AH			9AH
1BH			9BH
1CH	PWM1CTL		9CH
1DH	ECCPAS		9DH
1EH	ADRESH	ADRESL	9EH
1FH	ADCTL0	ADCTL1	9FH
20H	通用 寄存器 96 字節	通用 寄存器 80 字節 訪問 70-7FH	A0H
			EFH
			F0H
7FH			FFh

ADDR	BANK 2	BANK 3	ADDR
100H	IADD	IADD	180H
101H	TMR0	OPTR	181H
102H	PCL	PCL	182H
103H	STATUS	STATUS	183H
104H	RSR	RSR	184H
105H	Port A	PTIO A	185H
106H	Port B	PTIO B	186H
107H	Port C	PTIO C	187H
108H			188H
109H			189H
10AH	PCH	PCH	18AH
10BH	INTCTL	INTCTL	18BH
10CH	EEDATA	EECTL1	18CH
10DH	EEADR	EECTL2	18DH
10EH			18EH
10FH			18FH
110H			190H
111H			191H
112H			192H
113H			193H
114H			194H
115H	PBPHR		195H
116H	PBINTR		196H
117H			197H
118H	VRCTL		198H
119H	CM1CTL0		199H
11AH	CM2CTL0		19AH
11BH	CM2CTL1		19BH
11CH			19CH
11DH		PSTRCTL	19DH
11EH	ADINSL	SRCTL	19EH
11FH	ADINSH		19FH
120H	通用 寄存器 80 字節 訪問 70-7FH		1A0H
			1EFH
			1F0H
17FH			1FFH