

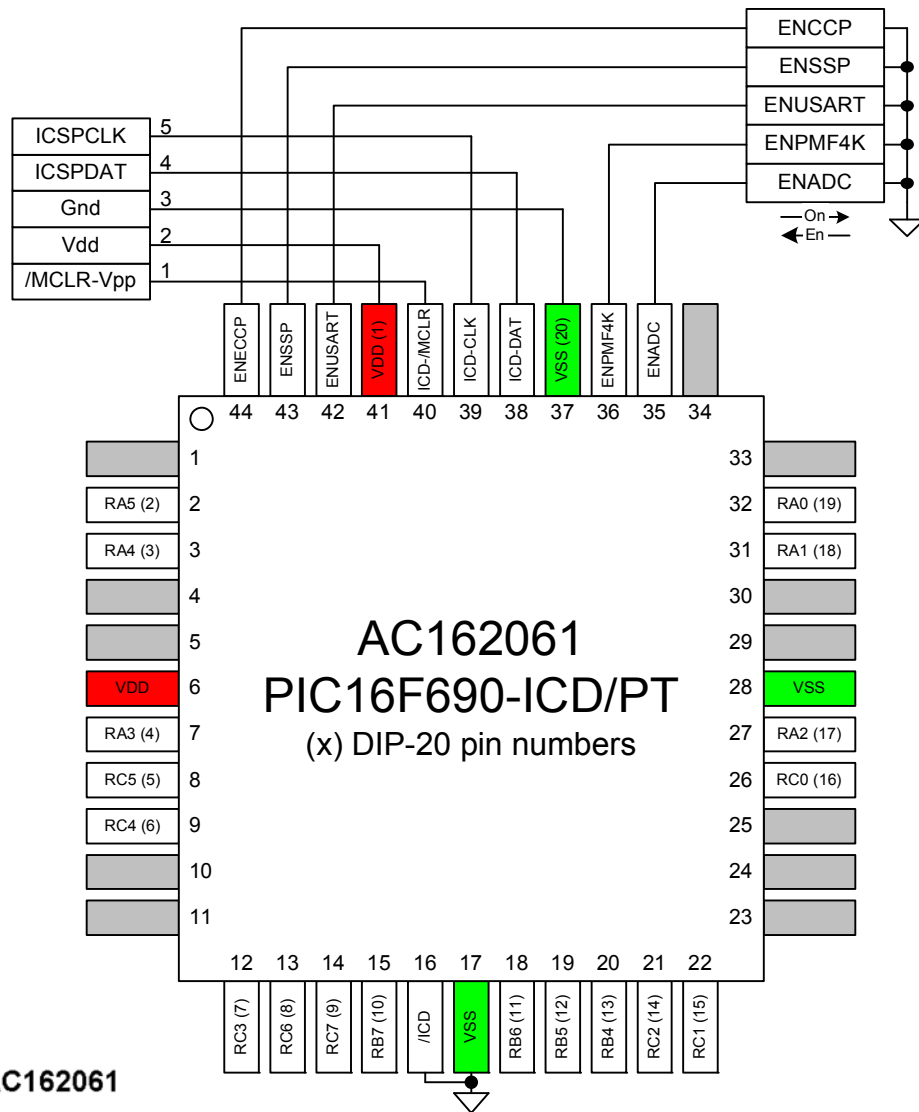
SMALL FOOTPRINT PIC ICD EMULATION MODULES

2008/03/31

Device	Header Part Number	ICD Device Used	Pin Count	Vdd Max
PIC10F200/2/4/6	AC162059	PIC16F505-ICD	14	5.5V
PIC10F210/2	AC162070	PIC16F506-ICD	14	5.5V
PIC12F508/509	AC162059	PIC16F505-ICD	14	5.5V
PIC12F510	AC162070	PIC16F506-ICD	14	5.5V
PIC12F629	AC162050	PIC16F675-ICD ⁽¹⁾	8	5.5V
PIC12F635	AC162057	PIC16F636-ICD	14	5.5V
PIC12F675	AC162050	PIC16F675-ICD ⁽¹⁾	8	5.5V
PIC12F683	AC162058	PIC16F683-ICD	8	5.5V
PIC16F505	AC162059	PIC16F505-ICD	14	5.5V
PIC16F506	AC162070	PIC16F506-ICD	14	5.5V
PIC16F610/616	AC162060	PIC16F785-ICD	14	5.5V
PIC16F627/628A	AC162053	PIC16F648-ICD ⁽¹⁾	18	5.5V
PIC16F630	AC162052	PIC16F676-ICD ⁽¹⁾	14	5.5V
PIC16F631	AC162061	PIC16F690-ICD	20	5.5V
PIC16F636	AC162057	PIC16F636-ICD	14	5.5V
PIC16F639 (Dual Die)	AC162066	PIC16F636-ICD	20	5.5V
PIC16F648A	AC162053	PIC16F648-ICD ⁽¹⁾	18	5.5V
PIC16F676	AC162052	PIC16F676-ICD ⁽¹⁾	14	5.5V
PIC16F677	AC162061	PIC16F690-ICD	20	5.5V
PIC16F684	AC162055	PIC16F684-ICD	14	5.5V
PIC16F685/687	AC162061	PIC16F690-ICD	20	5.5V
PIC16F688	AC162056	PIC16F688-ICD	14	5.5V
PIC16F689/690	AC162061	PIC16F690-ICD	20	5.5V
PIC16F716	AC162054	PIC16F716-ICD	18	5.5V
PIC16F785/HV785	AC162060	PIC16F785-ICD	20	5.5V
PIC18F1230/1330	AC162078	PIC18F1330-ICD	18/20/28	5.5V

(1) These devices can't be programmed or read using MPLAB ICD 2 while GP1/RA1 is high (V_{IH}). Move circuitry that makes GP1/RA1 high to another I/O pin during development. See device programming specifications for more information.

AC162061 PIC16F690-ICD TO TARGET CONNECTION



AC162061

For the PIC16F690 20-pin header, you will need to set the S1 switches (Figure 1) to enable peripherals and choose devices (Table 2).

FIGURE 1: S1 SWITCH HARDWARE

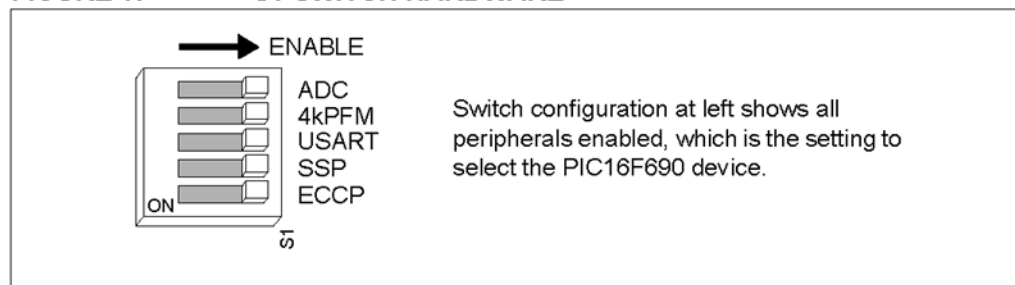
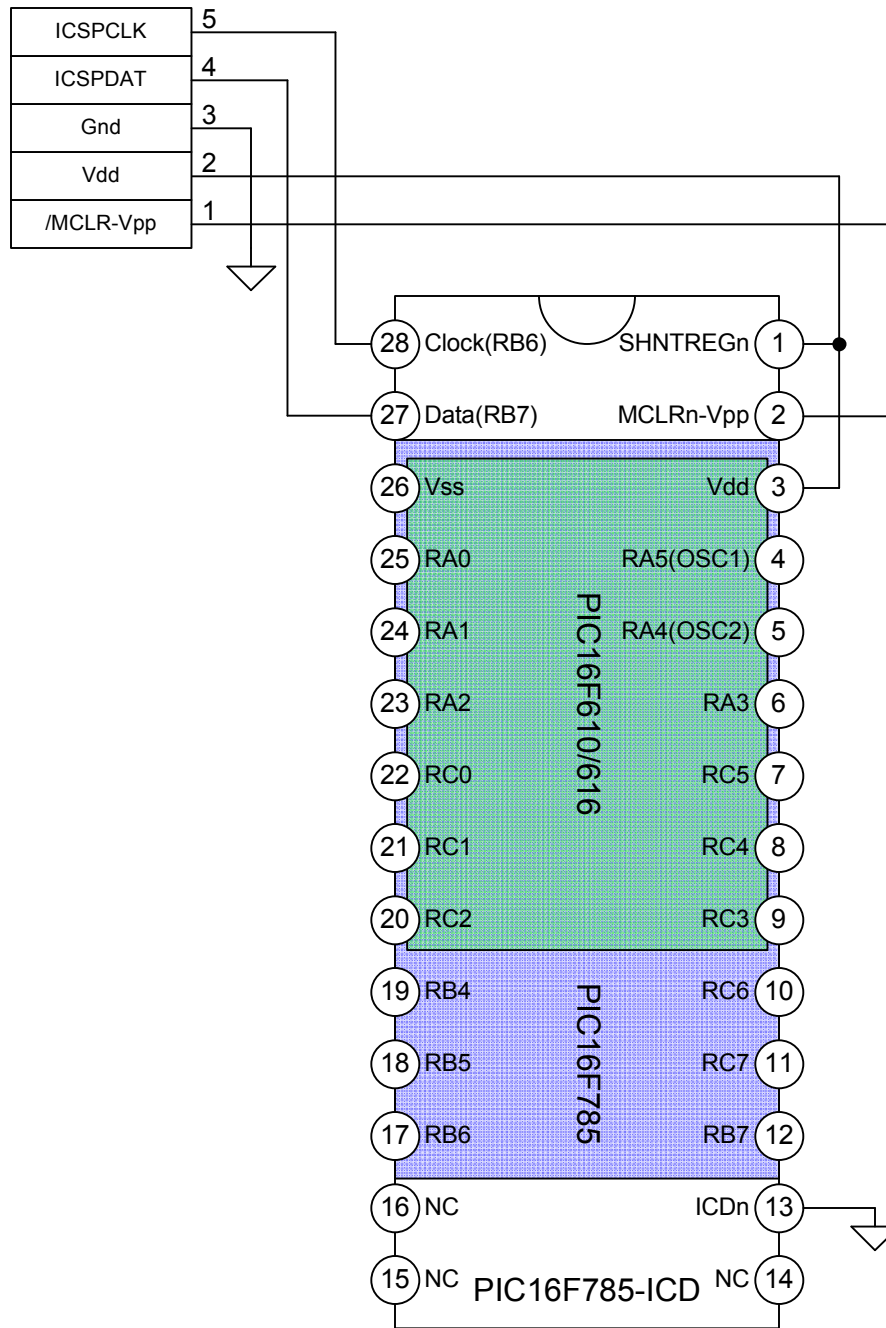


TABLE 2: S1 SWITCH DEVICE SELECTION

Device	Switches				
	ADC	4k PFM	USART	SSP	ECCP
PIC16F631	0	0*	0	0	0
PIC16F677	1	0**	0	1	0
PIC16F685	1	1	0	0	1
PIC16F687	1	0**	1	1	0
PIC16F689	1	1	1	1	0
PIC16F690	1	1	1	1	1

Legend: 1 = Enabled 0 = Disabled * = 1k PFM ** = 2k PFM

AC162060 PIC16F785-ICD TO TARGET CONNECTION



AC162060 PIC16F785-ICD TO PIC18F252 TRANSLATION

