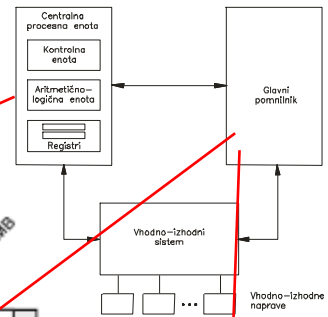
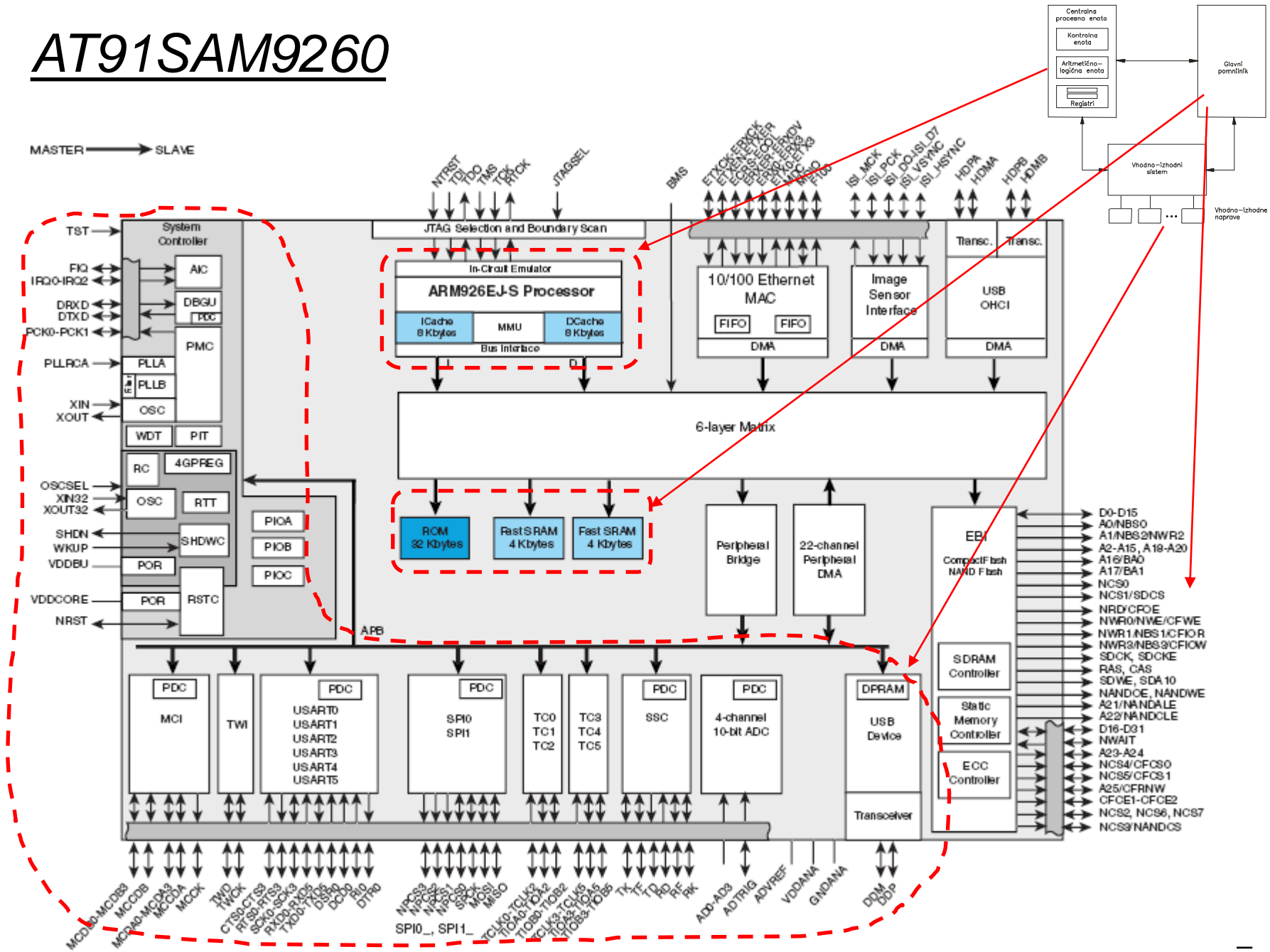


ARM

Projekt FRI-SMS BreadBoard IO Demo za :

- FRI-SMS vgrajen sistem
- winIDEA
- BreadBoard s stikali, diodami

AT91SAM9260



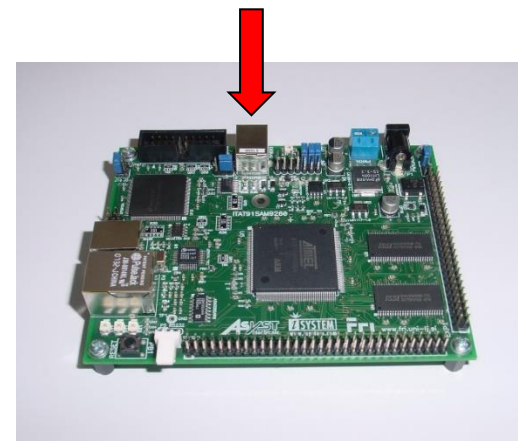
Delo na FRI-SMS razvojnem sistemu

Priključitev :

- **USB** prikllop na **daljši stranici**, sveti **zelena LED** dioda

Poseben projekt za FRI-SMS (e-učilnica) :



















- **dodatne nastavitve** (informativno) :
 - frekvenca urinega signala (višja poveča porabo!)
 - vklop predpomnilnikov
 - inicializacija sklada oz. SP – kazalca na sklad
- **dodajanje vsebine (start.s):**
 - podatki/operandi:
 - dodamo v `/*constants*/` ,končamo z `.align`
 - program :
 - dodamo v `/* enter your code here */`
 - na koncu programa je mrtva zanka
 - podprograme dodamo za mrtvo zanko



FRI-SMS dokumenti na e-učilnici

Pomembni za „breadboarding“:

- **FRISMS Vezave povzetek.pdf**
- **Vežalna shema FRI SMS.pdf**

✚ FRI-SMS specifični dokumenti		Uredi ▾
✚	 Predstavitev FRI-SMS 	Uredi ▾
✚	 Tovarniška listina AT91SAM9260 (12 MB pdf) 	Uredi ▾
✚	 FRISMS Vezave povzetek  Naloženo 29/11/2017 16:55	Uredi ▾
✚	 Vežalna_shema_FRI_SMS.pdf 	Uredi ▾
✚	 Nastavitve_mostickov_FRI_SMS.pdf 	Uredi ▾
✚	 rs232_prikljucek_FRI_SMS.pdf 	Uredi ▾
✚	 ARM_Reference_manual_DDI_01001.pdf 	Uredi ▾
✚	 Povezava na spletno stran FRI-SMS 	Uredi ▾
✚	 Povezava na on-line dokumentacijo ARM ref. 	Uredi ▾

FRI-SMS dokumenti na e-učilnici

FRISMS_Vezave_povzetek.pdf

41. AT91SAM9260 Electrical Characteristics

41.1 Absolute Maximum Ratings

Table 41-1. Absolute Maximum Ratings*

Operating Temperature (Industrial).....	-40°C to +85°C
Storage Temperature.....	-60°C to +150°C
Voltage on Input Pins with Respect to Ground... -0.3V to VDDIO+0.3V(+4V max)	
Maximum Operating Voltage (VDDCORE, VDDPLL and VDDBU).....	2.0V
Maximum Operating Voltage (VDDIOM and VDDIOP).....	4.0V
Total DC Output Current on all I/O lines.....	350 mA

Table 41-3. Power Consumption for Different Modes⁽¹⁾

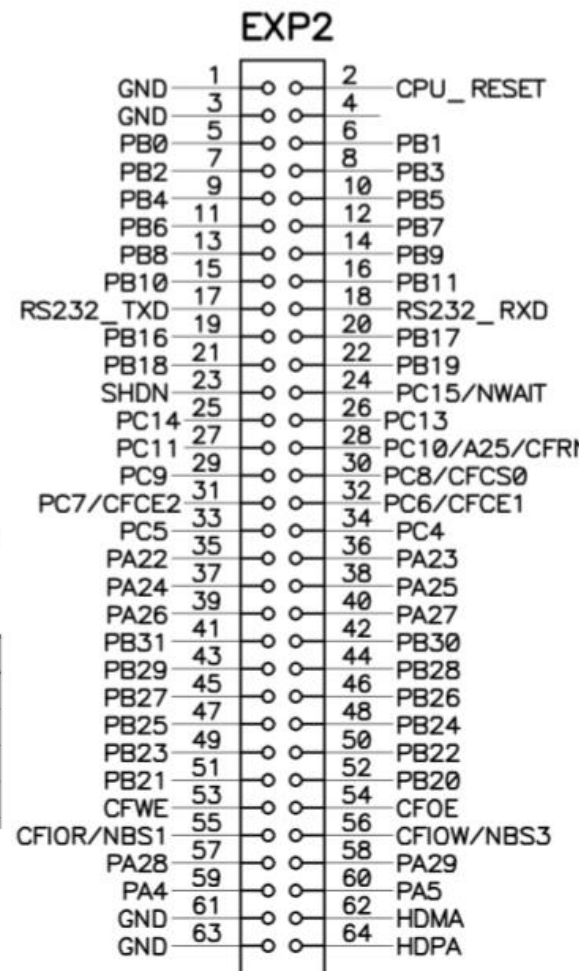
Mode	Conditions	Consumption	Unit
Active	ARM Core clock is 180 MHz. MCK is 90 MHz. All peripheral clocks activated. onto AMP2	130	mA
Idle	Idle state, waiting an interrupt. All peripheral clocks de-activated. onto AMP2	17	mA
Ultra low power	ARM Core clock is 500 Hz. All peripheral clocks de-activated. onto AMP2	600	µA
Backup	Device only V _{DDBU} powered onto AMP1	5	µA

41.2 DC Characteristics

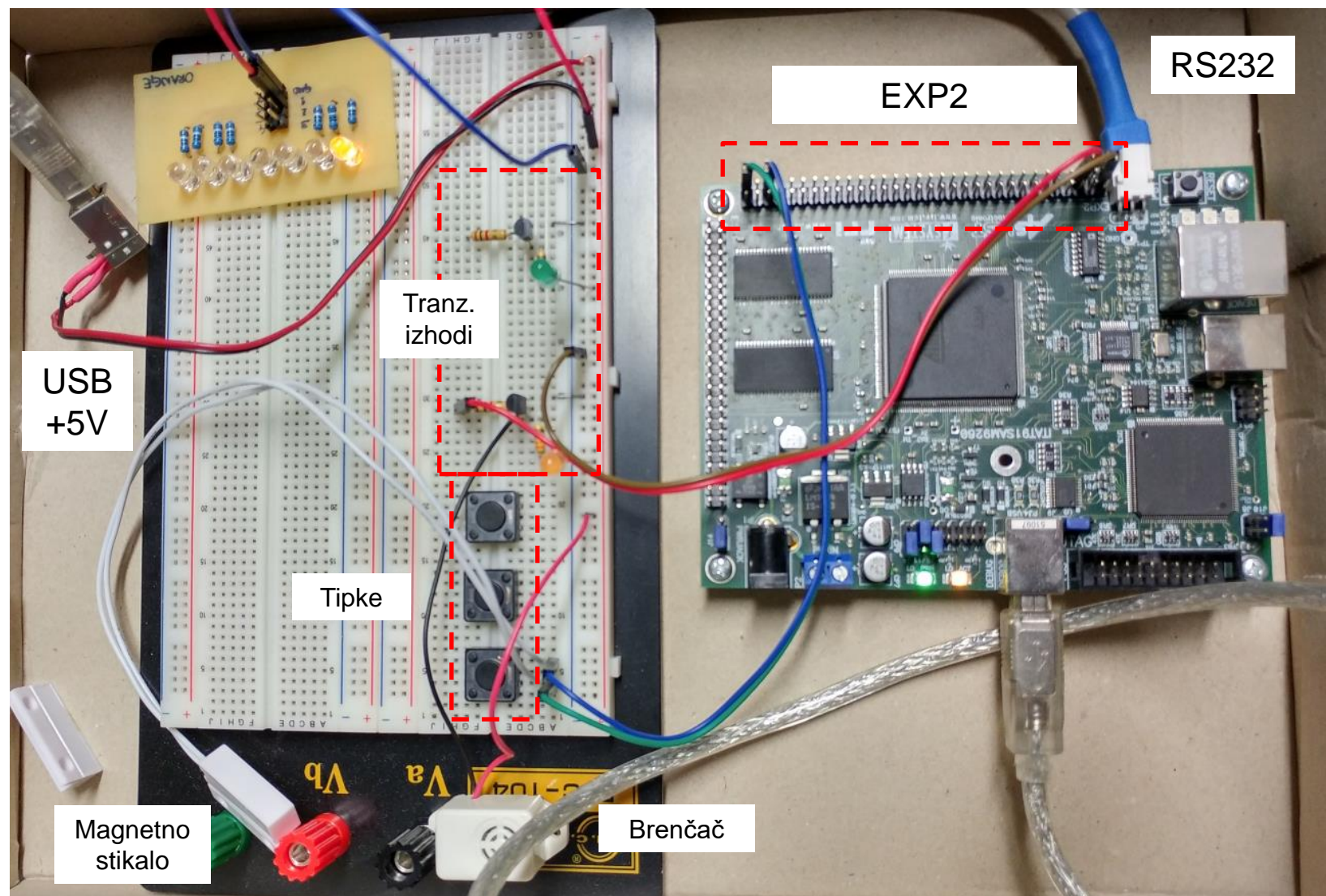
The following characteristics are applicable to the operating temperature range: T_A = -40°C to 85°C, unless otherwise specified.

Table 41-2. DC Characteristics

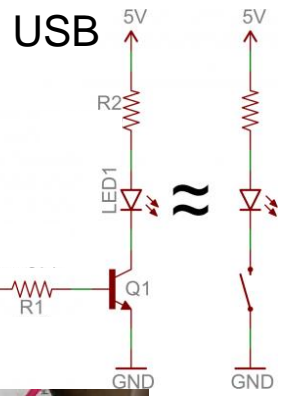
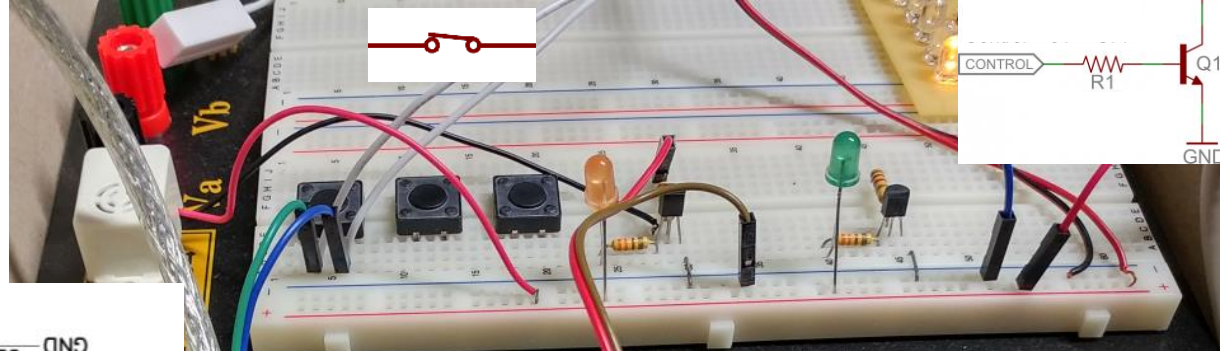
Symbol	Parameter	Conditions	Min	Typ	Max	Units
V _{VDDCORE}	DC Supply Core		1.65	1.8	1.95	V
V _{VDDBU}	DC Supply Backup		1.65	1.8	1.95	V
V _{VDDPLL}	DC Supply PLL		1.65	1.8	1.95	V
V _{VDDIOM}	DC Supply Memory I/Os	selectable by software	1.65/3.0	1.8/3.3	1.95/3.6	V



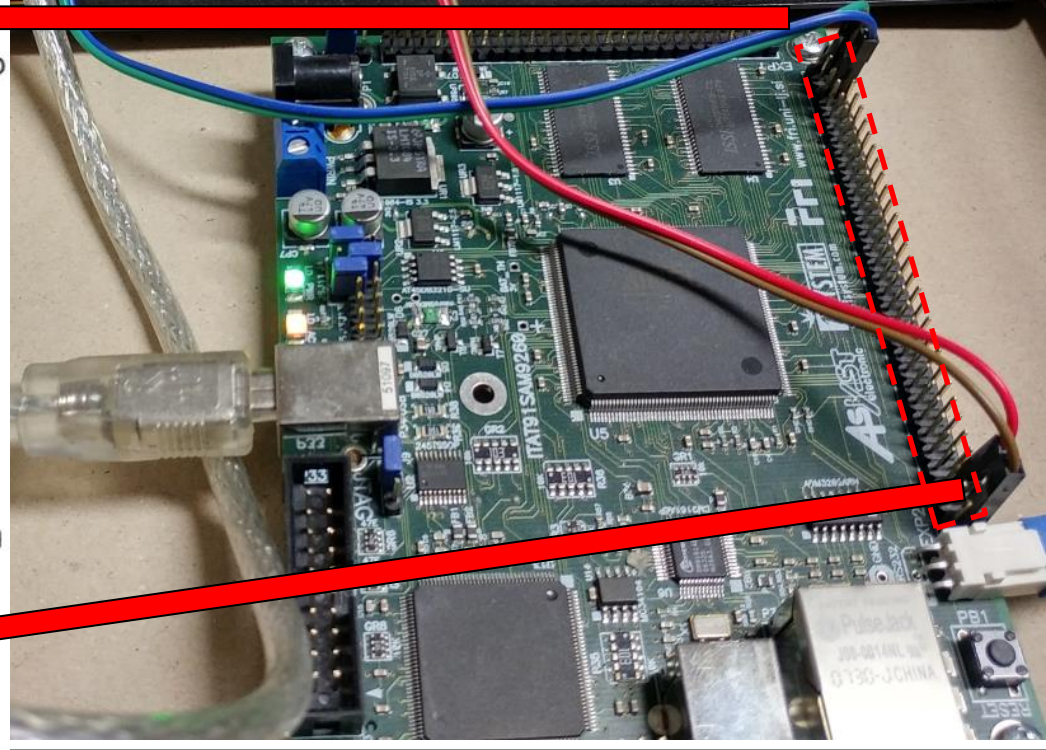
FRI-SMS BreadBoard IO demo



FRI-SMS BreadBoard IO Demo



EXP2		GND	
2	CPU_RESET	3	GND
4		5	PB0
6		7	PB1
8		9	PB2
10		11	PB3
12		14	PB4
14		15	PB5
16		17	PB6
18		19	PB7
20	RS232_RXD	21	PB8
22		23	PB9
24	PC15/NWAIT	25	PB10
26		27	PB11
28	PC13	29	PB12
30	PC10/A25/CFRNM	31	PB13
32	PC8/CFCSE0	33	PB14
34	PC6/CFCE1	35	PB15
36	PC4	37	PB16
38	PA23	39	PB17
40	PA25	41	PB18
42	PA27	43	PB19
44	PB28	45	PB20
46	PB26	47	PB21
48	PB24	49	PB22
50	PB22	51	PB23
52	PB20	53	PB24
54	CF0E	55	PB25
56	CF0F	57	PB26
58	CF0A/NBS1	59	PB27
60	PA29	61	PB28
62	PA5	63	PB29
64	HDMA	65	PB30
	HDP4		PB31



39 in 1 Sensor Kit (for Arduino)

