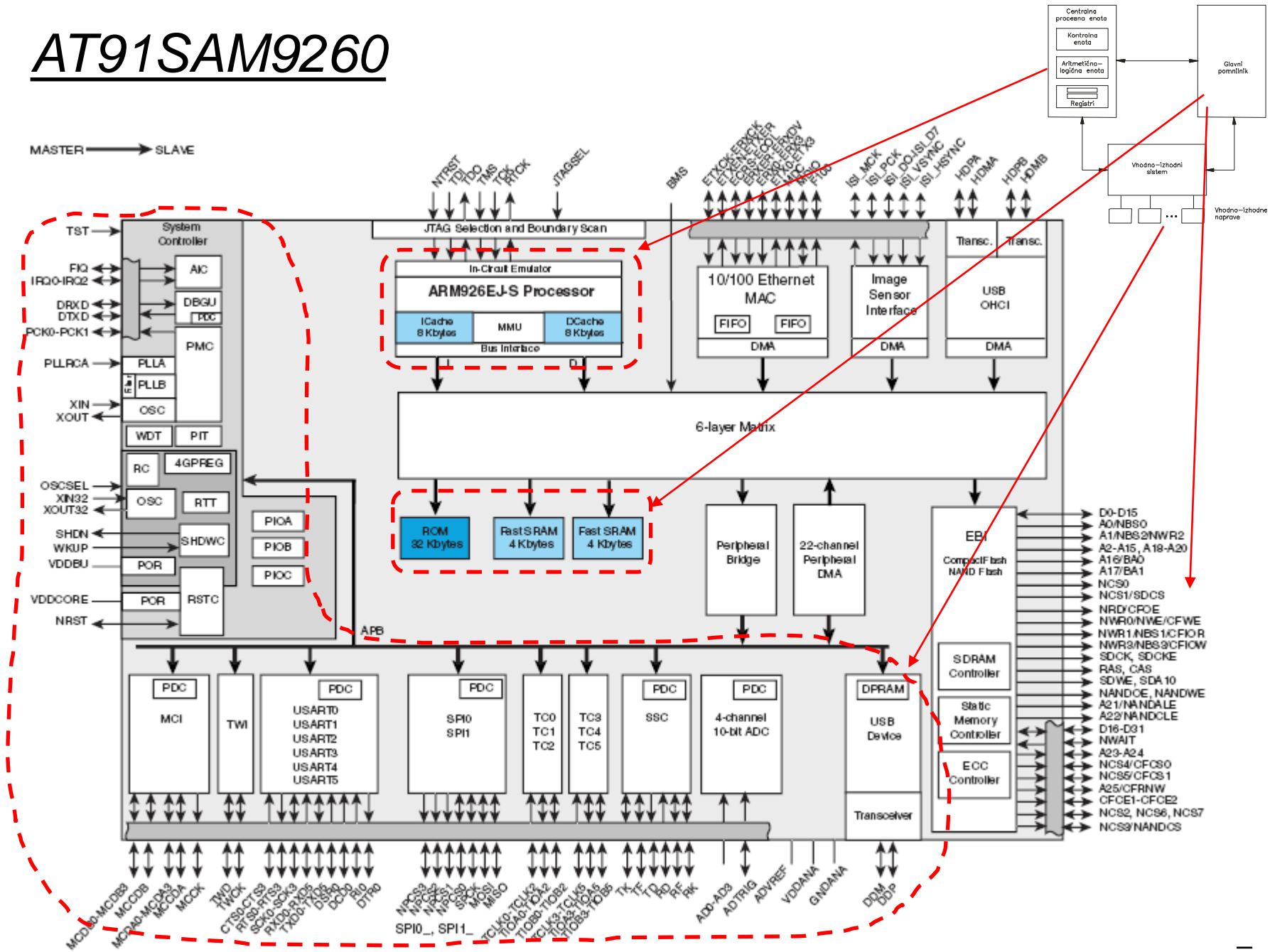


# ARM

## *Projekt FRI-SMS BreadBoard IO Demo za :*

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

# AT91SAM9260



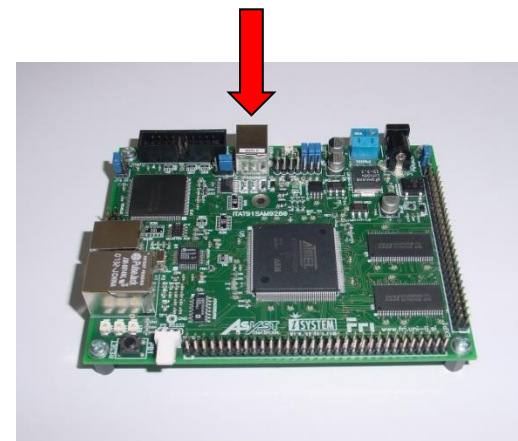
# Delo na FRI-SMS razvojnem sistemu

## 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 VDDDBU).....	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<sup>(1)</sup>

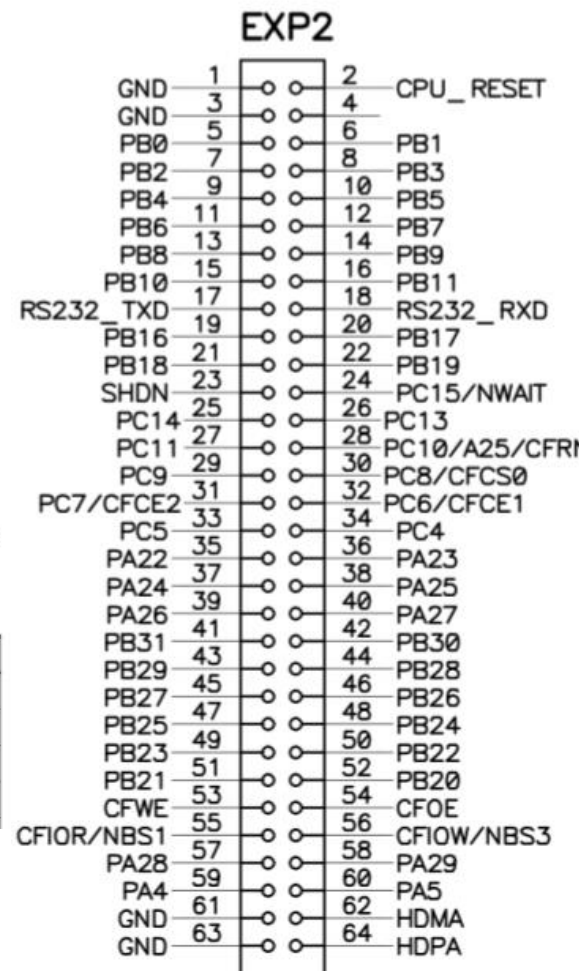
Mode	Conditions	Consumption	Unit
Active	ARM Core clock is 180 MHz. MCK is 90 MHz. All peripheral clocks activated. onto AMP2	130	mA
Idle	Idle state, waiting an interrupt. All peripheral clocks de-activated. onto AMP2	17	mA
Ultra low power	ARM Core clock is 500 Hz. All peripheral clocks de-activated.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

#### 41.2 DC Characteristics

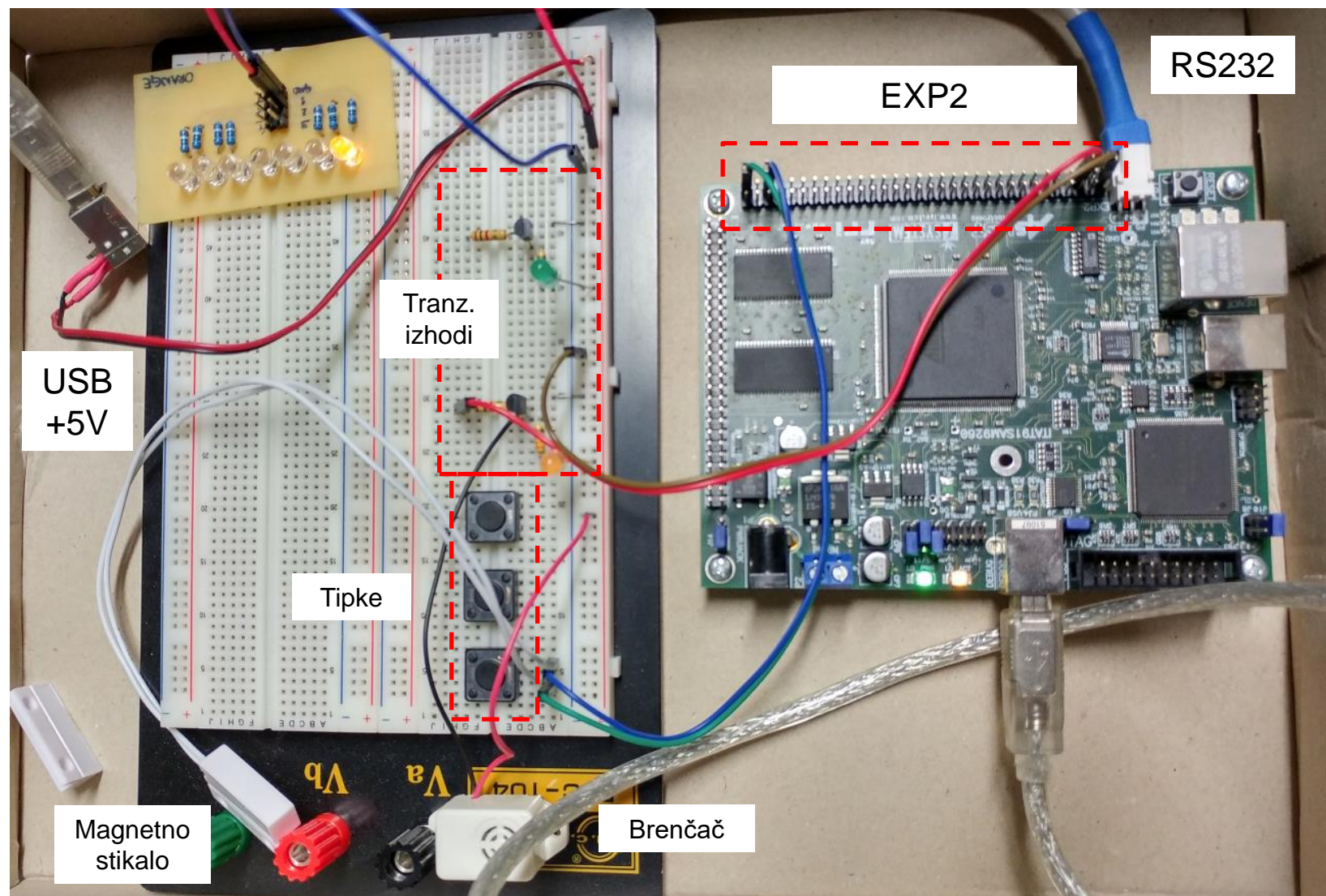
The following characteristics are applicable to the operating temperature range: T<sub>A</sub> = -40°C to 85°C, unless otherwise specified.

Table 41-2. DC Characteristics

Symbol	Parameter	Conditions	Min	Typ	Max	Units
V <sub>VDDCORE</sub>	DC Supply Core		1.65	1.8	1.95	V
V <sub>VDDDBU</sub>	DC Supply Backup		1.65	1.8	1.95	V
V <sub>VDDPLL</sub>	DC Supply PLL		1.65	1.8	1.95	V
V <sub>VDDIOM</sub>	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





# 39 in 1 Sensor Kit (for Arduino)

