

Register	R0, R1, R2, R3	16-Bit Register allgemein				R0 teilw. mit Sonderfunktion	
	STAGE_CNT	8 Bit Schleifenzähler					
ALU – Instructions			EQ	OV	OP-Cyc	Fetch-Cyc	
ADD	Rd, Rs1, Rs2	Rd = Rs1 + Rs2	x	x	2	4	
ADD	Rd, Rs1, Imm	Rd = Rs1 + u16	x	x	2	4	
SUB	Rd, Rs1, Rs2	Rd = Rs1 - Rs2	x	x	2	4	
SUB	Rd, Rs1, Imm	Rd = Rs1 - u16	x	x	2	4	
AND	Rd, Rs1, Rs2	Rd = Rs1 & Rs2	x		2	4	
AND	Rd, Rs1, Imm	Rd = Rs1 & u16	x		2	4	
OR	Rd, Rs1, Rs2	Rd = Rs1 Rs2	x		2	4	
OR	Rd, Rs1, Imm	Rd = Rs1 u16	x		2	4	
LSH	Rd, Rs1, Rs2	Rd = Rs1 << (Rs2 & 0x000F)	x		2	4	Schiftweite wird maskiert
LSH	Rd, Rs1, Imm	Rd = Rs1 << (u16 & 0x000F)	x		2	4	dto
RSH	Rd, Rs1, Rs2	Rd = Rs1 >> (Rs2 & 0x000F)	x		2	4	dto
RSH	Rd, Rs1, Imm	Rd = Rs1 >> (u16 & 0x000F)	x		2	4	dto
MOVE	Rd, Rs	Rd = Rs	x		2	4	
MOVE	Rd, Imm	Rd = u16	x		2	4	
Memory Data (32Bit)							
ST	Rs, Rd, Imm	Mem[Rd + offset] = Rs			4	4	Offset in Bytes [0 .. 0x7FF)
LD	Rd, Rs, Imm	Rd = Mem[Rs + offset]			4	4	
Sprung-Befehle zu absoluter Addr							
JUMP	Rd	Jump → Addr(Rd)			2	2	
JUMP	label	Jump → Addr(label)			2	2	
JUMP	Rd, flag	if (flag) Jump → Addr(Rd)	*	*	2	2	
JUMP	label, flag	if (flag) Jump → Addr(label)	*	*	2	2	
Sprung-Befehle zu relativer Addr (I7 => +/- 64 Befehle)							
JUMPR	label, Imm, GE	if (R0 >= u16) Jump label			2	2	Sprungdistanz zu Label
JUMPR	label, Imm, LT	if (R0 < u16) Jump label			2	2	errechnet Assembler
JUMPS	label, I8, EQ	if (scnt == I8) Jump label			4	4	
JUMPS	label, I8, LT	if (scnt < I8) Jump label			2	2	
JUMPS	label, I8, LE	if (scnt <= I8) Jump label			2	2	
JUMPS	label, I8, GT	if (scnt > I8) Jump label			4	4	
JUMPS	label, I8, GE	if (scnt >= I8) Jump label			2	2	
Stage-Counter							
STAGE_RST		scnt = 0			2	4	
STAGE_INC	Imm	scnt = scnt + I8			2	4	
STAGE_DEC	Imm	scnt = scnt - I8			2	4	
Ablaufsteuerung							
HALT		Halt			2		Starts ULP Wakeup-Timer if enabled
WAKE		Wake SoC or Interrupt			2	4	
SLEEP	[0..4]	Select Sleep-Register			2	4	
NOP		No Operation (750ns)			2	4	
WAIT	Imm	Wait (u16 * 125ns)			2	4	