

Tabelle1

PIC spec								
Datum: 31.12.2011								
commands between MCF and PIC								
task	direction	nr total byts	header	nr data byts	data	checksum	response	remarks
req RTC and NVRAM data from PIC	MCF→PIC	1	0x01				send RTC and NVRAM data to MCF	at start
send RTC and NVRAM data to MCF	PIC→MCF	65	0x81	64	RTC and NVRAM data			
req RTC and NVRAM data from MCF	PIC→MCF	1	0x02				send RTC and NVRAM data to PIC	at power down
send RTC and NVRAM data to PIC	MCF→PIC	65	0x82	64	RTC and NVRAM data			at power down
last warning undervoltage	PIC→MCF	1	0x03					Sending if the voltage is below 3.12v →after 5 sec the power goes down → save your datas!!
activate ext program at adr 0x2000	MCF→PIC	1	0x04					if adr 0x2000 = 0xFF & start ext interrupts at adr 0x2002; if adr 0x2010 = 0xFF start ext subroutines at adr 2012
stop ext programs	MCF→PIC	1	0x05					
hardware RESET of MCF	MCF→PIC	4	0x0C	3	_LRS1"			Hardware Reset MCF
power off	MCF→PIC	4	0x0C	3	_OFF"			power off
PIC reset	MCF→PIC	4	0x0C	3	_RPI"			power off and reset PIC →> total reset, RTC and NVRAM datas are lost
req block	MCF→PIC	4	0xA0	3	3 byt block adr		send block data	req block from PIC flash
send block data	PIC→MCF	68	0xA1	67	3 byt block adr, 64 byt data			
programm block	MCF→PIC	69	0xA2	68	3 byt block adr, 64 byt data, 1 byt checksum	1 byt	0x00=OK, 0xFE=checksum error	programm one block in PIC. Take care of this!!
at start after power on or reset								
send SYNC to start PIC	MCF→PIC	4		4	_ACPF"		_OK"	after sending the sync the PIC is ready for communication, before the PIC doesn't respond to commands
Button								
function	start status	task						
power up the FireBee	power off	Press >0.3 sec			Power goes on and a hardware reset occurs for 1 sec			
reset the FireBee	normal stat	press >0.3 sec and <2.5sec			After 0.1 sec the PIC request the RTC and NVRAM data; after 0.25 sec a hardware reset occurs		The MCF must send the RTC and NVRAM data	
power down the FireBee	normal stat	Press <2.5sec			After 0.1 sec the PIC request the RTC and NVRAM data; after 2.5 sec the power goes off		The MCF must send the RTC and NVRAM data	