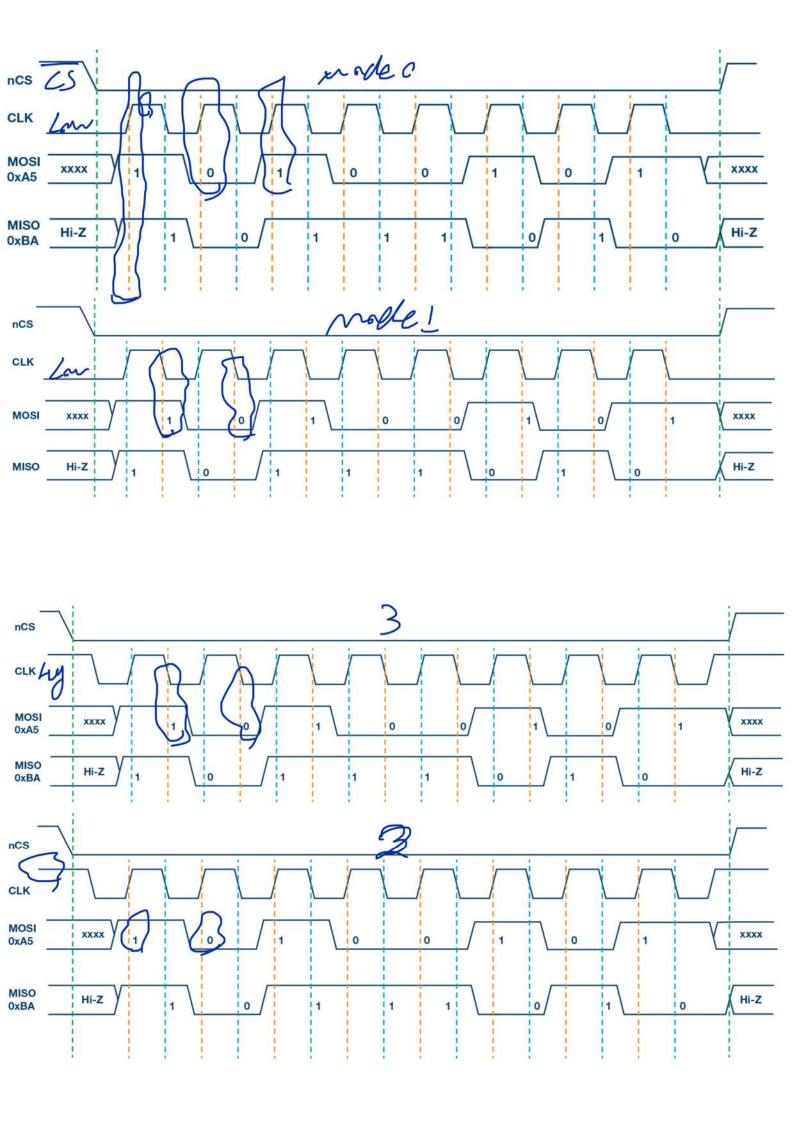
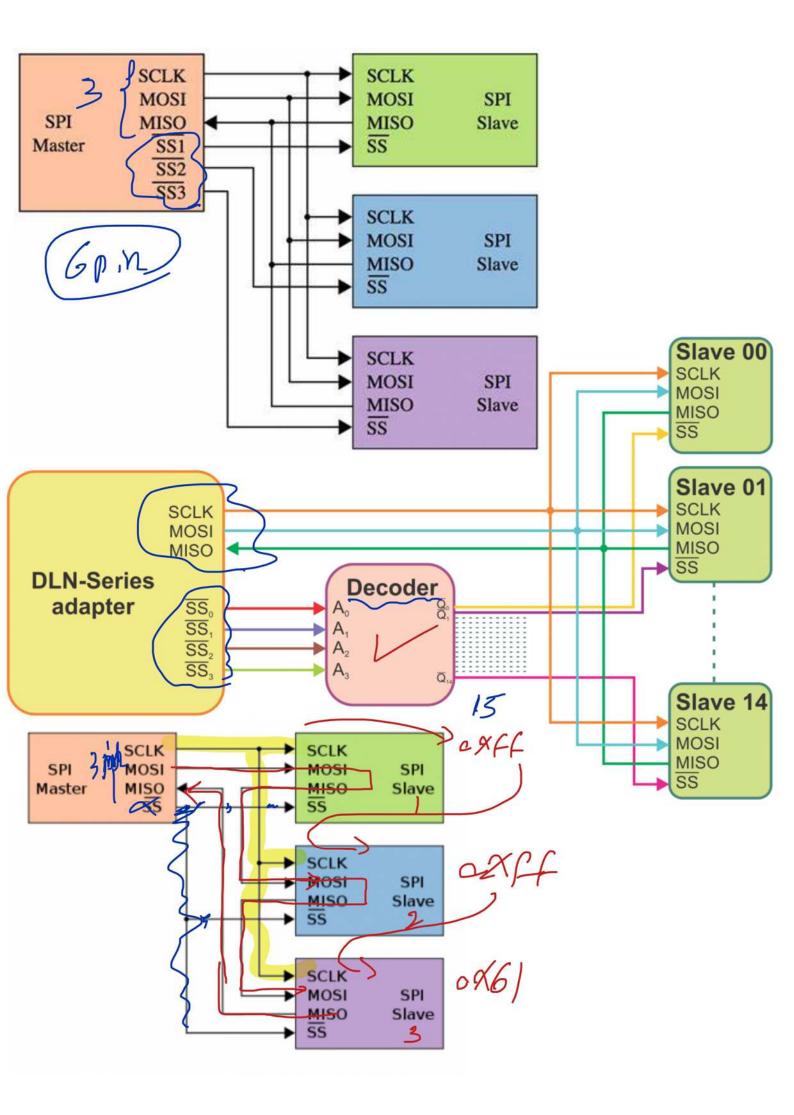
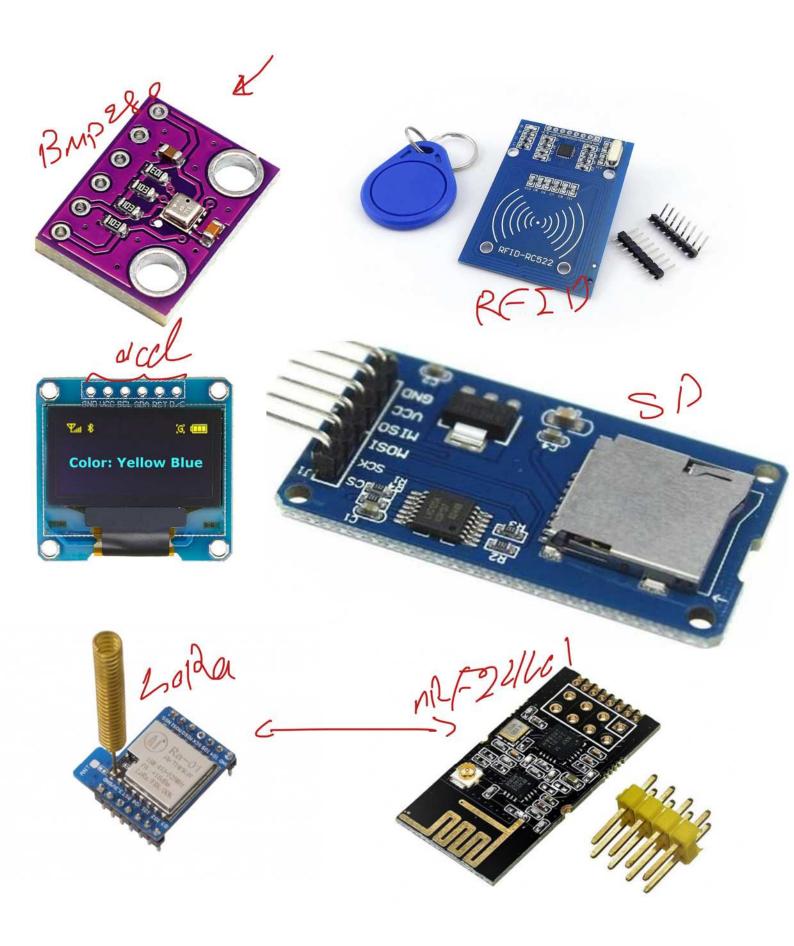
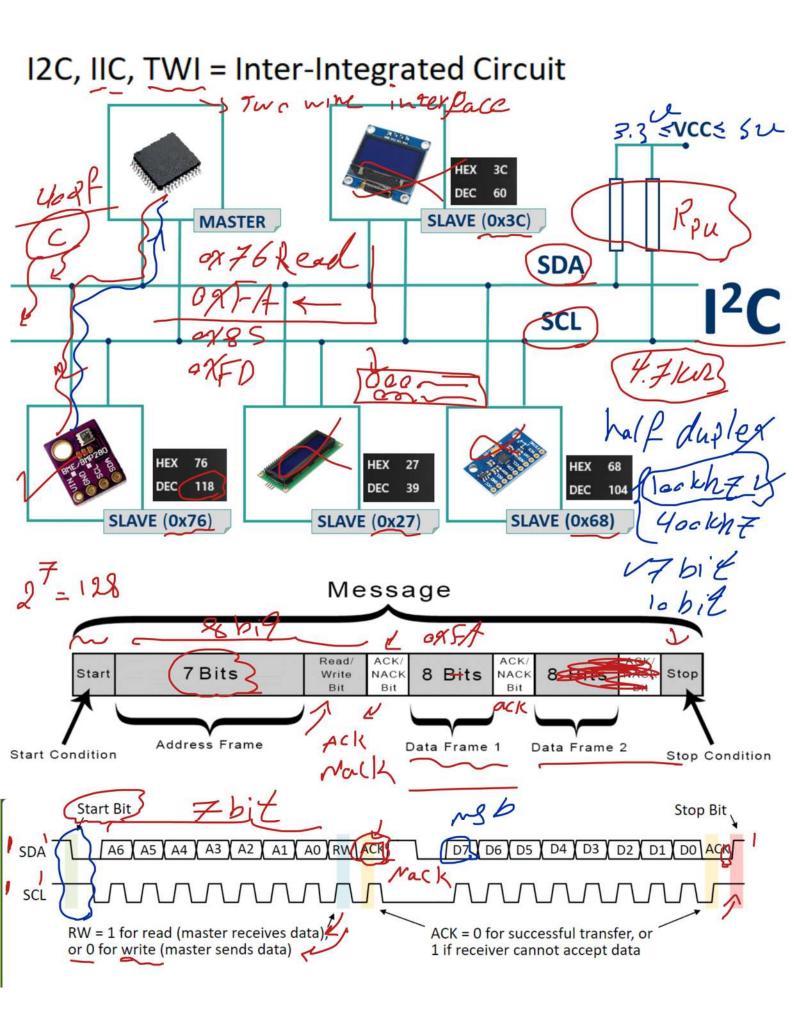


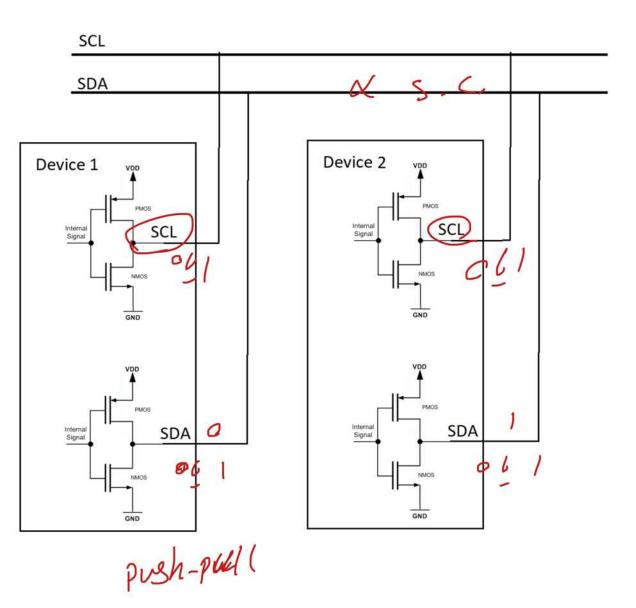
Barp280 offA ox- ox-200.0us/ 10.0V/ 2.00V 750.0mV 10.5000V 200.0us Trig'd **■** Summary Acquisition Normal 250MSa/s 200MHz Channels DC 10.0:1 DC 10.0:1 DC 10.0 1 DC 10.0.1 24 CLKS -19.5000V -11.2500V 750.0mV 10.5000V 10.0:1 DC 10.0:1 DC 10.0:1 DC 10.0:1 First Edge Sampling Many Low Leur Second Edge Sampling Mode 0 Mode 1 Clock Idle Low Clock Idle Low Second Edge Sampling High Lamy 2 Mode 2 Mode 3 First Edge Sampling Clock Idle High Clock Idle High

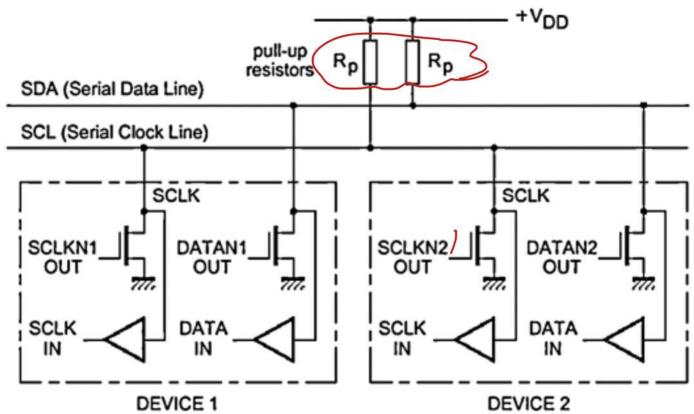




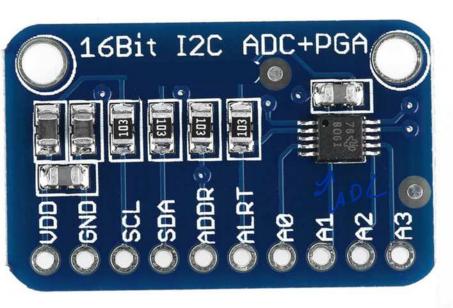


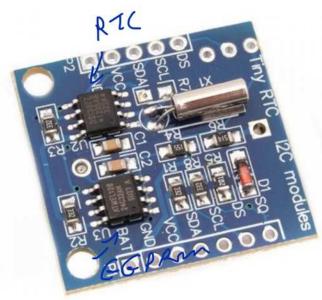










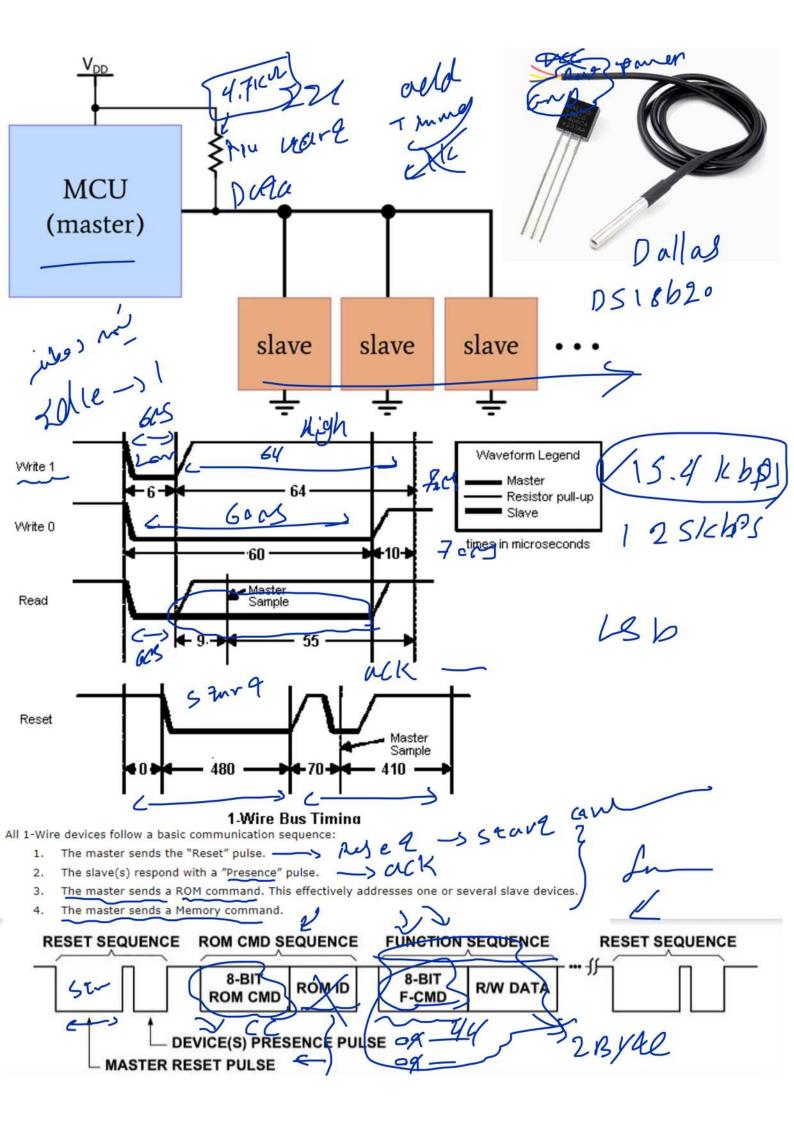


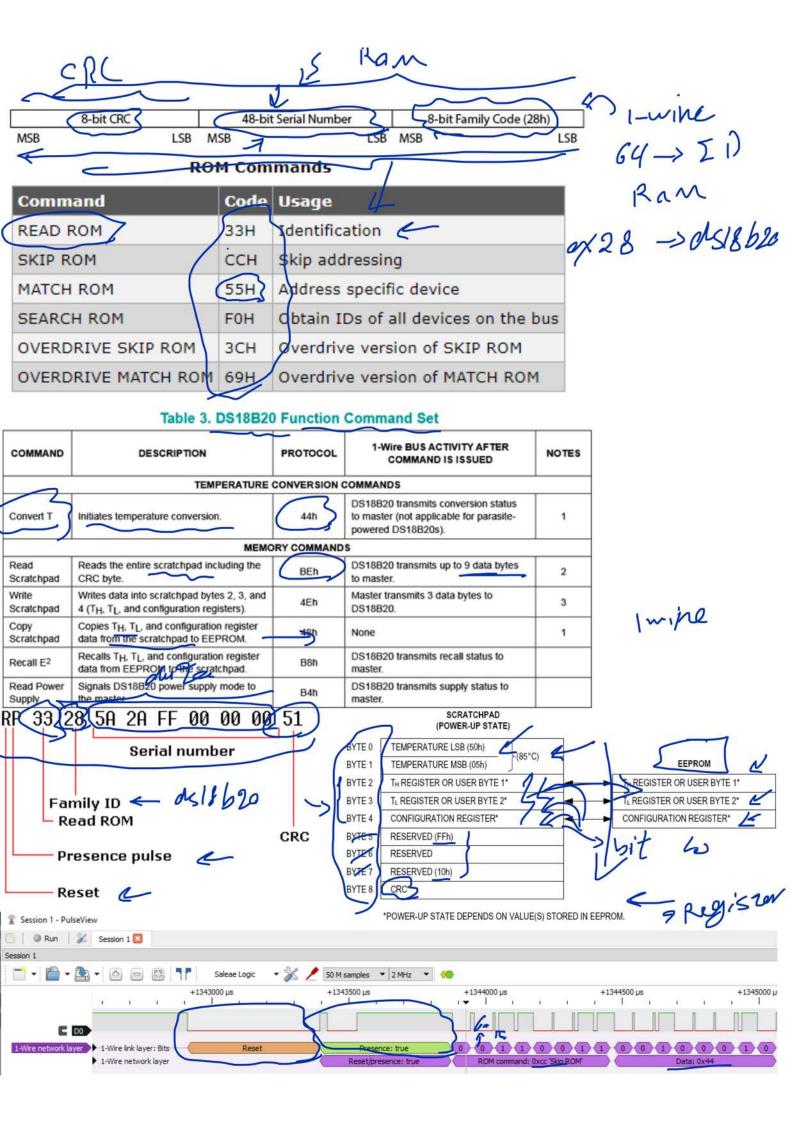












MASTER MODE	DATA (LSB FIRST)	a COMMENTS
\rightarrow Tx	> Reset Stw	Master issues reset pulse.
Rx ←	Presence OLCK	DS18B20s respond with presence pulse.
Tx ->	55h	Master issues Match ROM command.
Tx ->	64-bit ROM code	Master sends DS18B20 ROM code. GU bil
$T_{\rm X} \longrightarrow$	44h	Master issues Convert T command.
delay Tx ->	DQ line held high by strong pullup	Master applies strong pullup to DQ for the duration of the conversion (t _{CONV}). 7 S \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Tx →	Reset	Master issues reset pulse.
Rx ←	Presence	DS18B20s respond with presence pulse.
Tx ->	55h	Master issues Match ROM command.
Tx ->	64-bit ROM code	Master sends DS18B20 ROM code.
Tx>	BEh	Master issues Read Scratchpad command.
Rx ←	9 data bytes	Master reads entire scratchpad including CRC. The master then recalculates the CRC of the first eight data bytes from the scratchpad and compares the calculated CRC with the read CRC (byte 9). If they match, the master continues; if not, the read operation is repeated.

