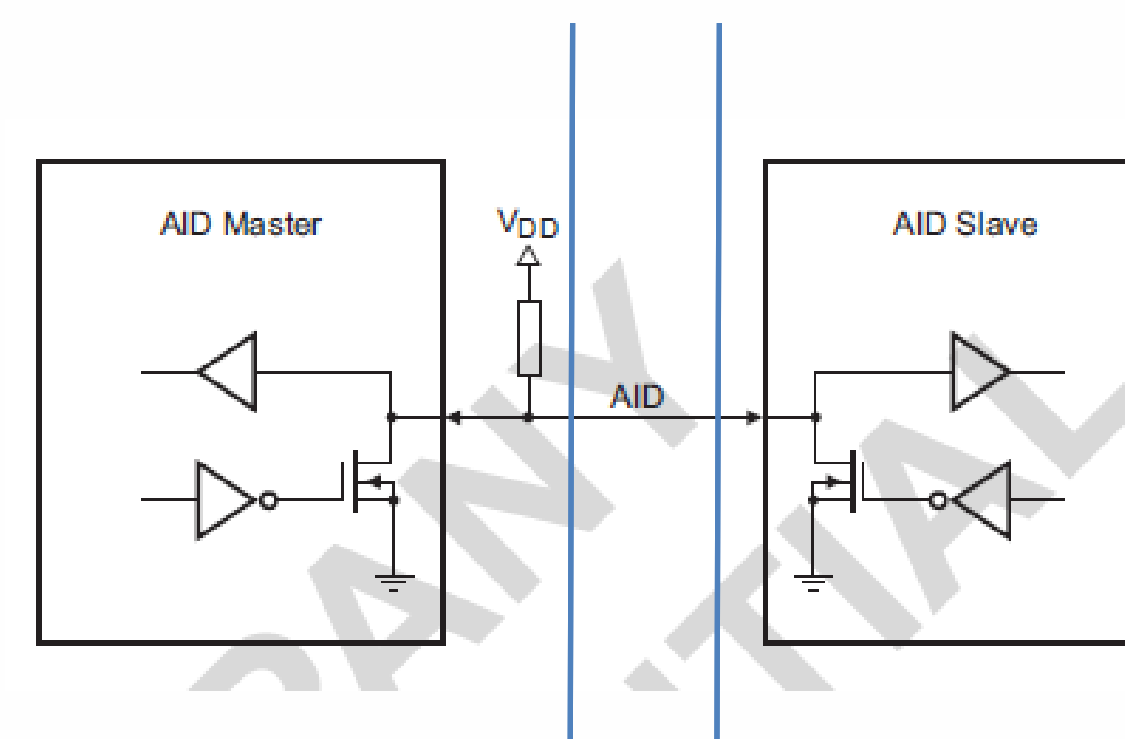
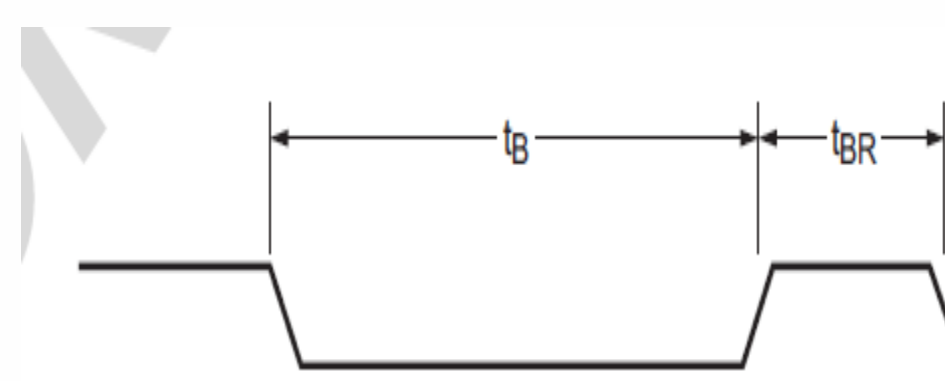
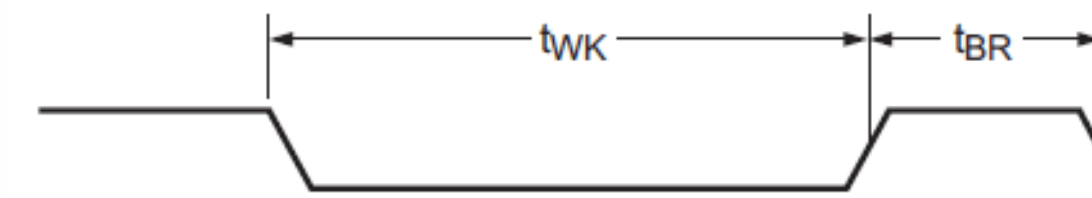


AID Interface





Weak Pulse

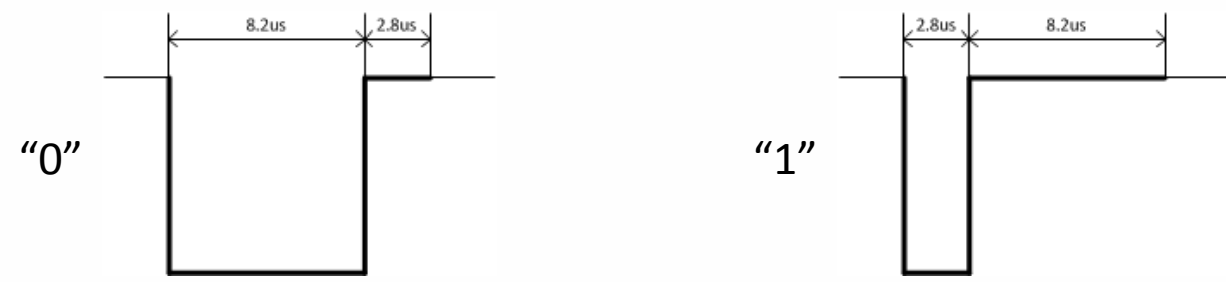


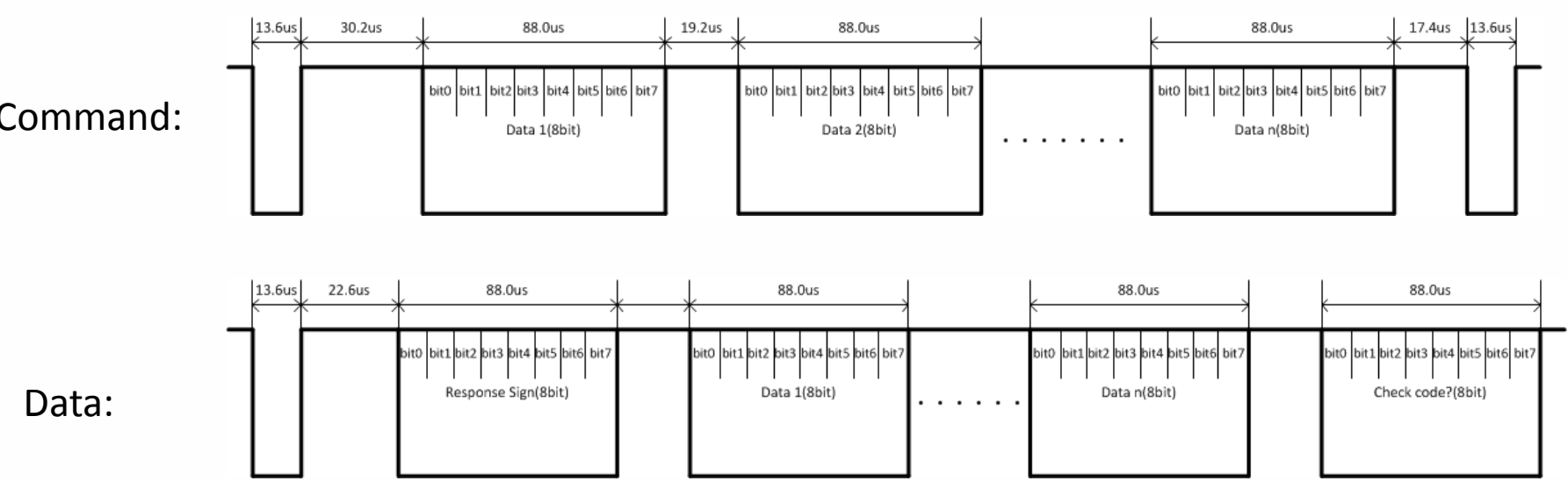


Brownout Reset

If the AID Bus line is held low for longer than tBOR, the device should enter a low power mode (i.e. power down, etc.).

When the AID Bus is returned to high, the device should begin power on reset initialization. The device should be able to properly receive a command within the device initialization time tDIT.





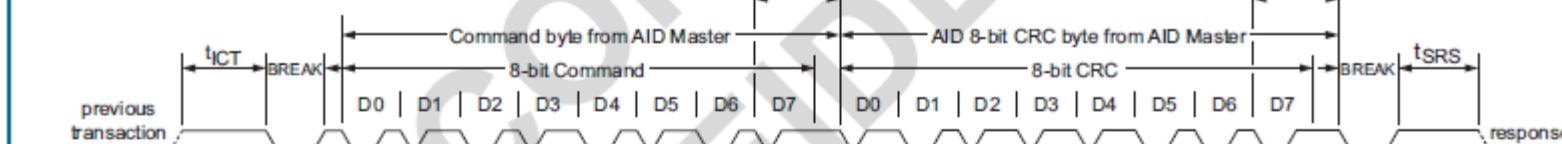


Fig 52. AID 0 Byte Payload Command Packet

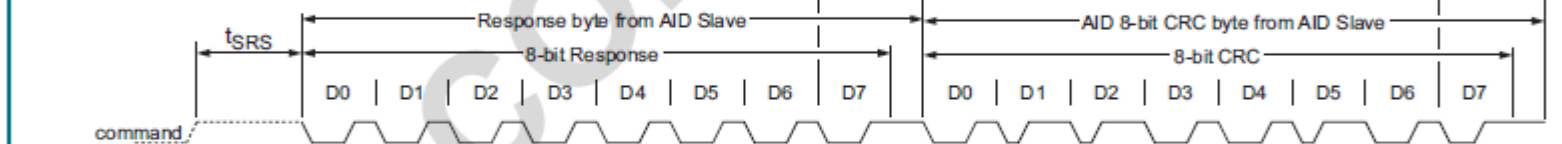


Fig 53. AID 0 Byte Payload Response Packet



Fig 54. AID N-Byte Data Payload Command Packet

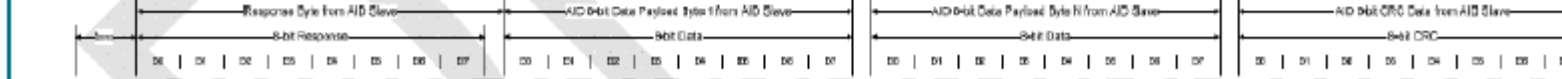


Fig 55. AID N-Byte Data Payload Response Packet

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Bus Timing Parameters

Parameter	Specification guaranteed by	Min	Nom	Max	Unit
t _B Break Time	ATE	12	-	16	μs
t _{BR} Break Recovery Time	ATE	3.5	-	-	μs
t _{WK} Wake Time	ATE	22	-	27	μs
t _{HD} Host Disconnect Time	not applicable for Host, but captured only for reference	60	-	-	μs
t _{W1} Write 1 Time	ATE	1.0	-	2.5	μs
t _{W0} Write 0 Time	ATE	6	-	8	μs
t _{CYC} Cycle Time	ATE	9.0	-	11.1	μs
t _{MNH} Minimum High Time = t _{CYC} - t _{W0}	ATE	1.5	-	-	μs
t _{BT} Inter-Byte Time	ATE	20	-	-	μs
t _{CT} Inter-Command Time	ATE	10	-	-	μs
t _{SRS} Start Response Time	n/a	20	-	-	μs

- A CRC-8 polynomial function of
 $X^8 + X^6 + X^4 + X^3 + X^2 + X + 1 = 0x15E = 0x5E$
is used to provide an optional means of error
detection during device communication.

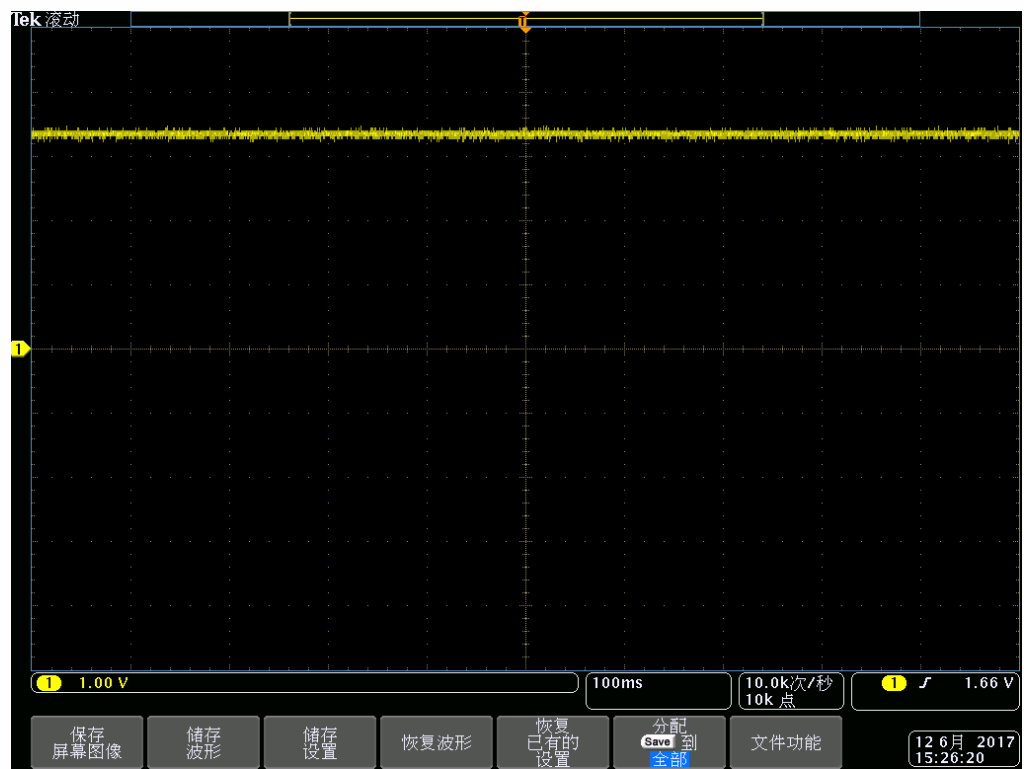
Init: **0xFF**



Base Requirements

- *Software interface should allow sending arbitrary commands up to 32 bytes in length including command byte and CRC;*
- *Software interface should allow receipt of arbitrary responses up to 32 bytes in length including CRC;*
- *The first byte of the response must be sent within 1ms of receiving the ID command;*
- *The entire response must be sent within 2ms of receiving the ID command.*

Command : **detectPoll off** (without DUT)

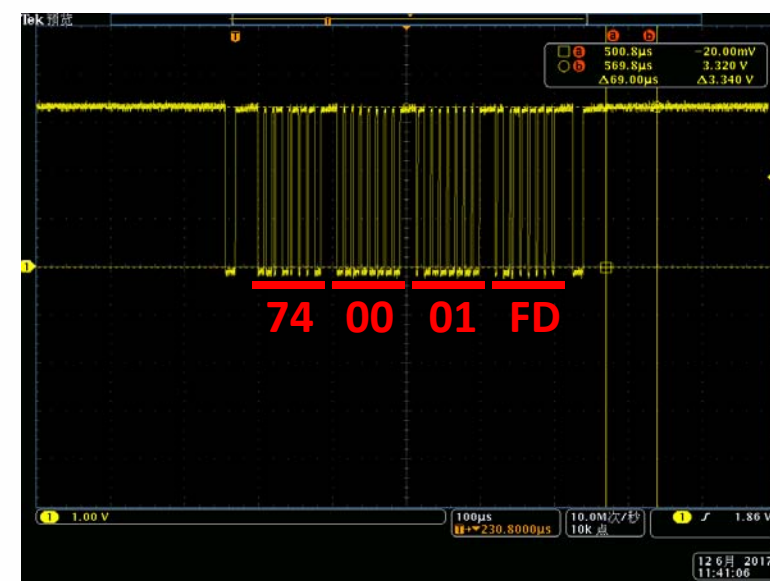


Voltage : about 3.340V

Command : **detectPoll on** (without DUT)

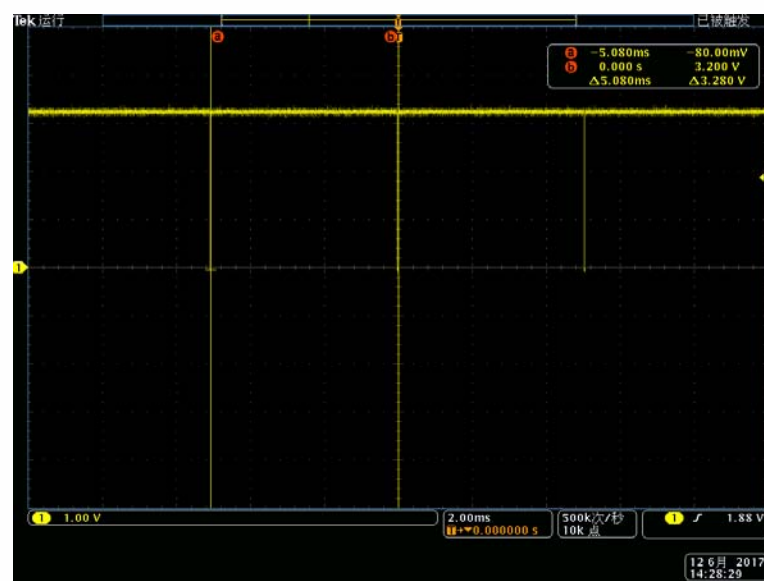


Frequency : about 50Hz

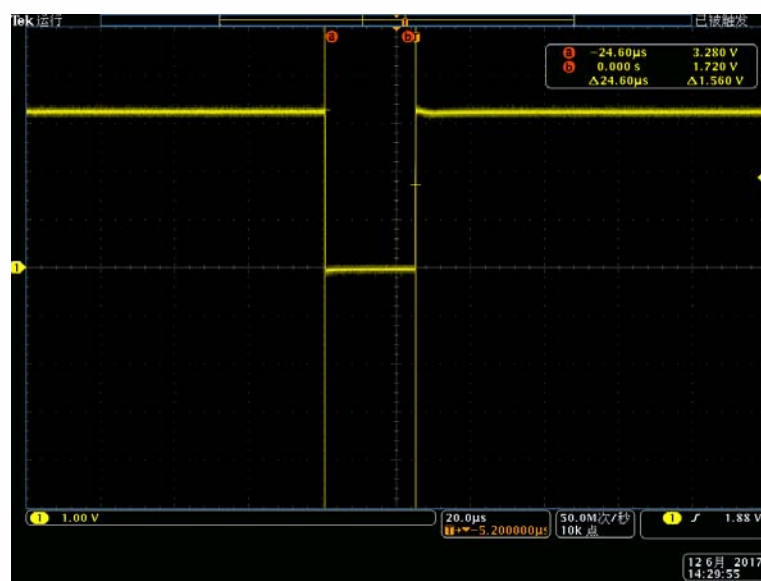


Command : 0x74 0x00 0x01 0xFD

Command : **detectPoll off** (with DUT)



Frequency : about 200Hz



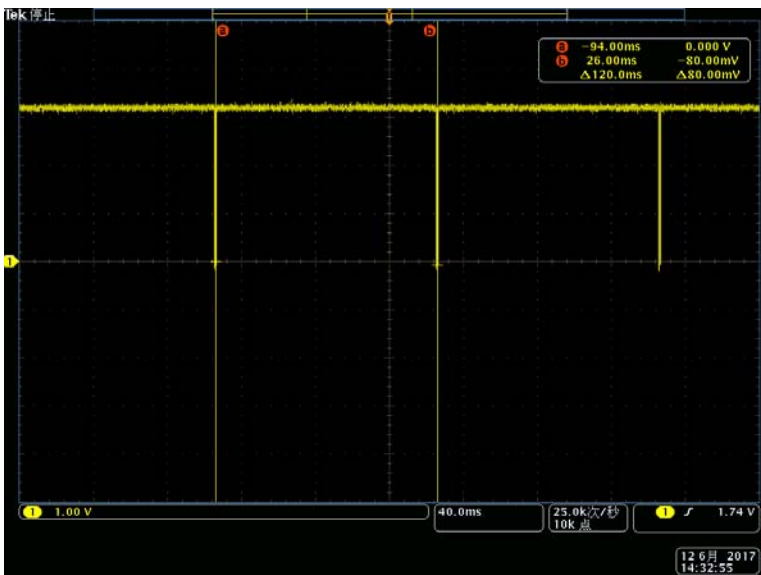
Pulse width : about 20us



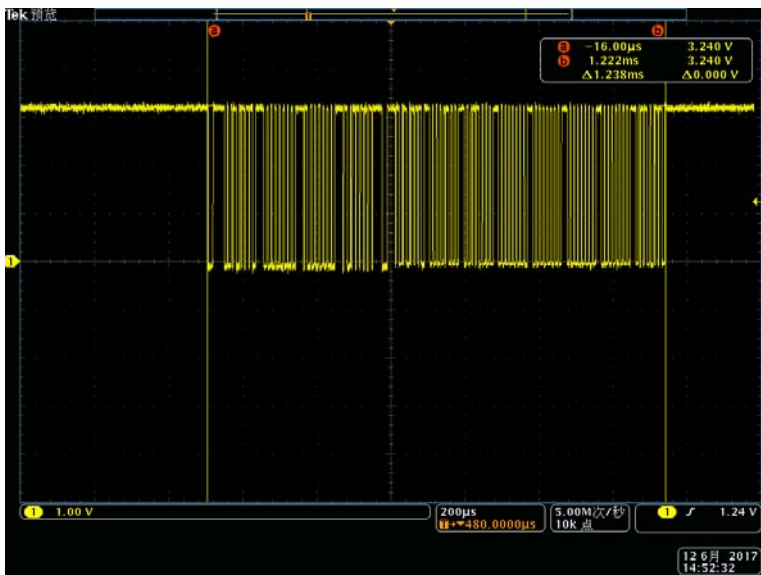
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Command analysis

Command : **detectPoll on** (with DUT)



Frequency : about 8Hz



Command : 0x74 0x00 0x01 0xFD

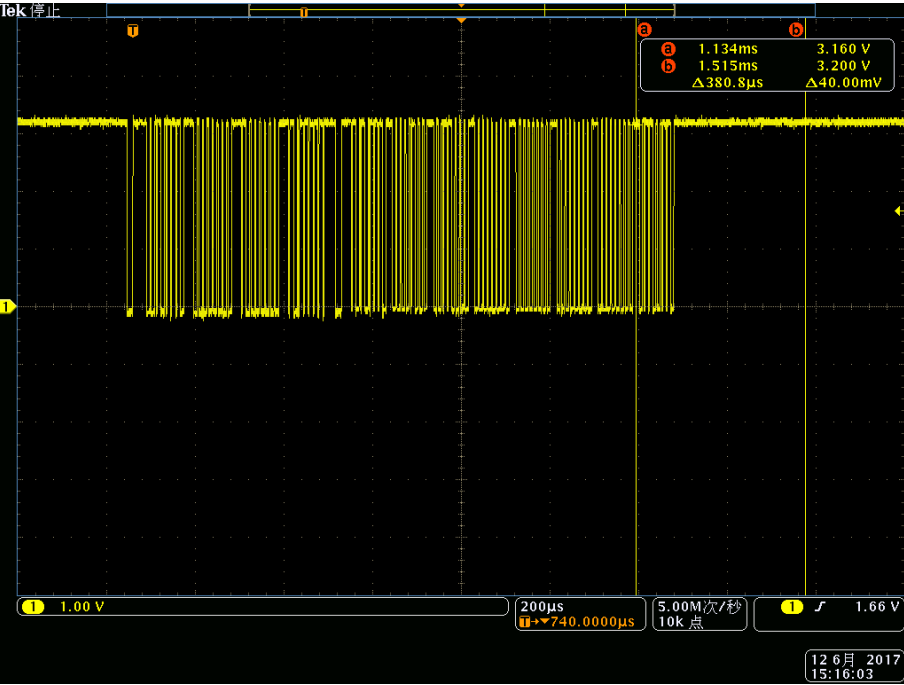
Date : 0x75 0x10 0x0C 0x00 0x00 0x00 0x00 0x66



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Command analysis

Command : otplD



Command : 0x74 0x00 0x01 0xFD
Date : 0x75 0x10 0x0C 0x00 0x00 0x00 0x00 0x66
Receive data : 0x10 0x0C 0x00 0x00 0x00 0x00



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Command analysis

Command : **otpiINFO**



Command : 0x76 0x10
Date : 0x77 0x01 0x25 0x01 0x80 0x86 0x5C 0xAD 0x53 0x4A 0x42 0x29
Receive data : vid=1 pid=37 rev=1 flags=0x80 0x865CAD534A42

长园集团:600525.SH

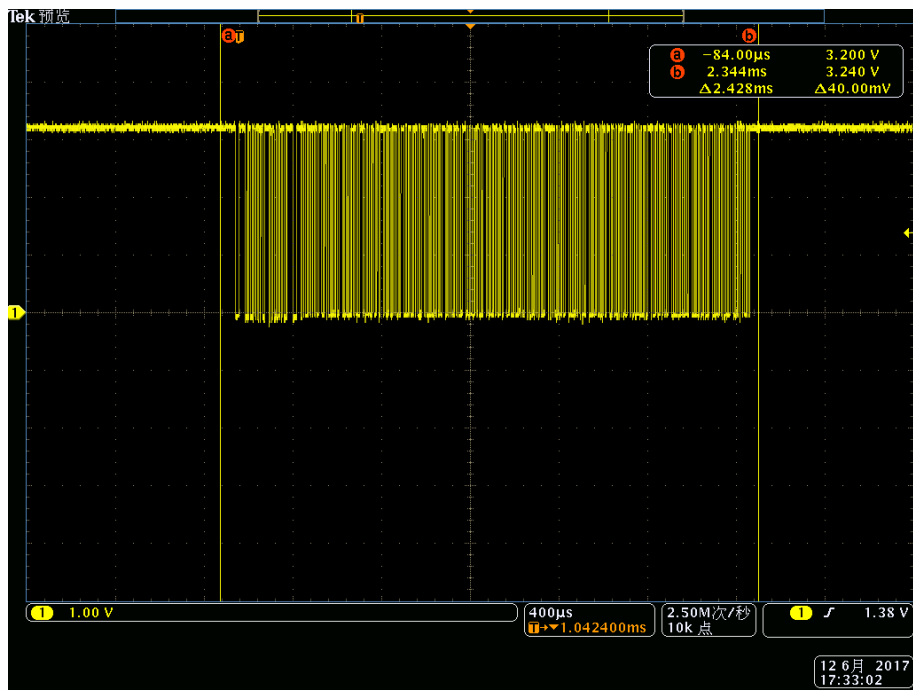
长园集团:600525.SH



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Command analysis

Command : otpASN



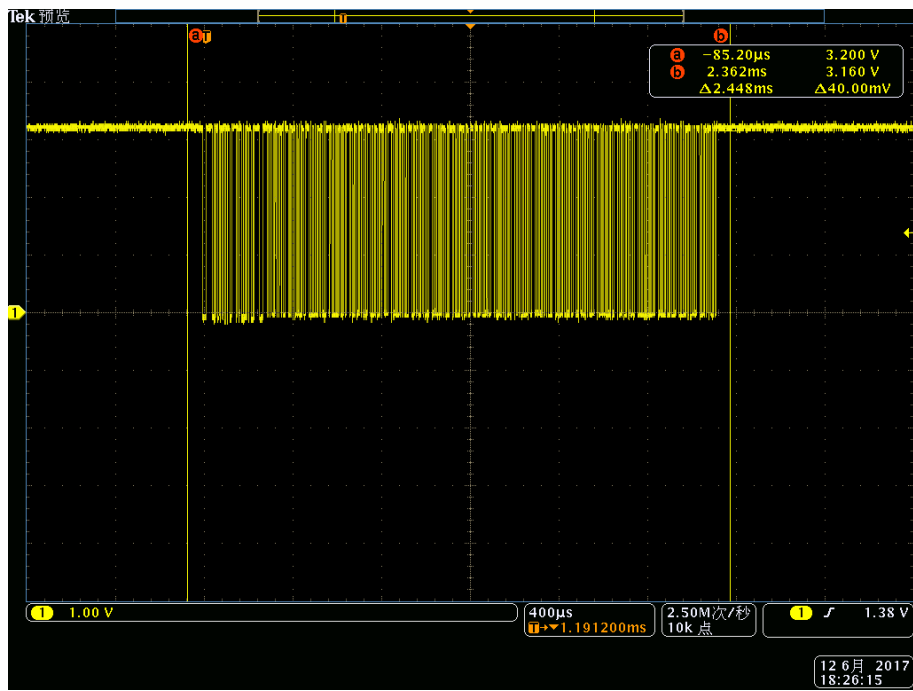
Command : 0x7A 0xB3
Date : 0x7B 0x46 0x30 0x51 0x35 0x34 0x31 0x36 0x30 0x59 0x4A 0x39
0x47 0x38 0x48 0x32 0x41 0x35 0x00 0x28 0x18 0xDC
Receive data : F0Q54160YJ9G8H2A5



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Command analysis

Command : otpASNRaw



Command : 0x7A 0xB3
Date : 0x7B 0x46 0x30 0x51 0x35 0x34 0x31 0x36 0x30 0x59 0x4A 0x39
0x47 0x38 0x48 0x32 0x41 0x35 0x00 0x28 0x18 0xDC
Receive data : 46 30 51 35 34 31 36 30 59 4A 39 47 38 48 32 41 35 00 28 18

Thank You

for The Opportunity

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