

PGA460-Q1

- Device Settings
 - General
 - Block Diagram
 - Time Varying Gain
 - Threshold
 - Diagnostics
 - Test Mode
 - Data Monitor**
 - Interface Mode
 - Memory Map

EVM Status

USB Controller:
USB2ANY I/F Found

USB Firmware:
2.7.0.0

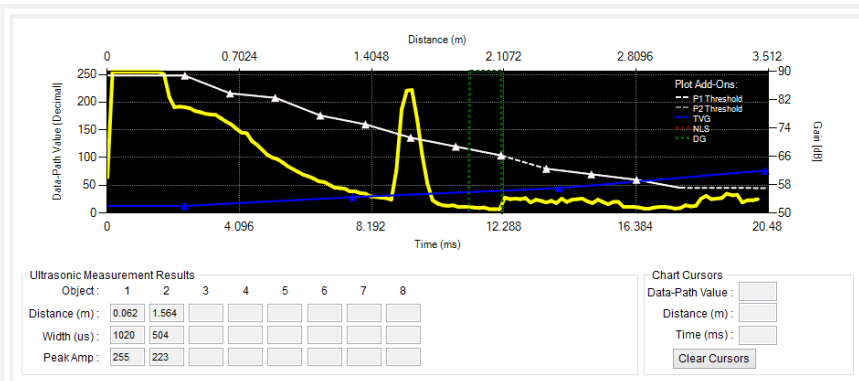
Connection Status:
Connected

PGA460-Q1 Status:
Ready, UART Addr = 6

Reinitialize USB Control

Check for PGA460-Q1

Simulation



Run Options

START Preset P1 P2 Command Burst & Listen Listen Only

Measurement Graph Export Legend

Ultrasonic Echo Display Format No. Loops: 0 173 Loop Delay (ms): 0

Plot Data Dump # of Objects to Detect: 2 Start Delay (ms): 0

List Measurement Results

Chart Cursors
Data-Path Value: []
Distance (m): []
Time (ms): []
Clear Cursors

DEV_STAT0

REV_ID 10
OPT_ID 00
CMW_WU_ERR 0
THR_CRC_ERR 0
EE_CRC_ERR 0
TRIM_CRC_ERR 0

DEV_STAT1

TSD_PROT 0
IOREG_OV 0
IOREG_LV 0
A/DD_OV 0
A/DD_LV 0
VPWR_OV 0
VPWR_LV 0

UART Diagnostic Page

UART Interface

UART_DIAG=0

Invalid Bit Rate: 0
Mismatched Widths: 0
Invalid Checksum: 0
Invalid Command: 0
General UART Error: 0

System Diagnostics

UART_DIAG=1

Threshold Settings CRC: []
Frequency Diagnostics: []
Voltage Diagnostics: []

Faults Utilities Register



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Transmit

Drive & Receive Frequency [kHz]: 40

Burst Frequency Range Shift

Deadtime [us]: 0.1875

Receive

AFE Gain Range [dB]: 52-84

Initial AFE Gain [dB]: 52

Initial AFE Gain [VM]: 421.7

Band-Pass Filter Bandwidth [kHz]: 4

Low Pass Filter Cutoff [kHz]: 2

Threshold Deglitch Time [us]: 120

Non-Linear Scaling

Noise Level: 0

Scaling Exponent: 1.5

Time Offset Parameter: TH9

Enable P1 P2

Digital Gain

Preset 1 (P1) SR Gain: x2 LR Gain: x8 LR Starting Threshold: TH9

Preset 2 (P2) SR Gain: x4 LR Gain: x16 LR Starting Threshold: TH9

Presets

Preset 1 (P1) Burst Pulses: 4 Driver Current Limit [mA]: 250 Record Time Length [ms]: 20.48 Max Detectable [m]: 3.512

Preset 2 (P2) Burst Pulses: 0 Driver Current Limit [mA]: 500 Record Time Length [ms]: 24.576 Max Detectable [m]: 4.214

P1 Short Default P2 Long Default

Disable Current Limit for Presets

Decouple Time Decouple [ms]: 20.48 Temperature Decouple [°C]: 0

Default All Register Settings

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File Edit View Help

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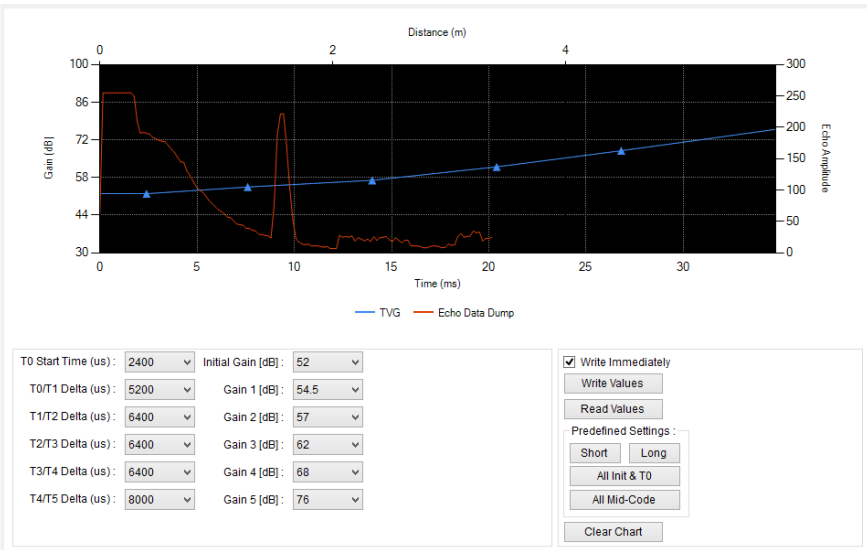
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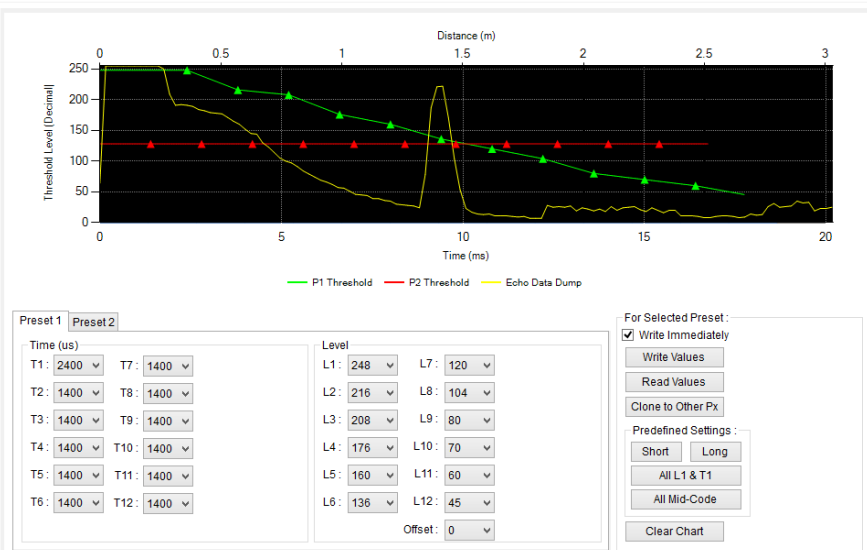
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