

Serial Debug & Test Commands

for the CY3210-ExpressDK

ARD

Description: Read data over the I2C bus from device and convert to ASCII.

Usage: ARD Addr Cnt
Addr Address of device
Cnt Byte count to read

Output: ASCII string.

CIRD

Description: Continuously read data over the I2C bus and convert every two bytes to integer values for display. Two bytes are read for every integer requested. The sub-address must have already been set by the WR operation.

Usage: CIRD Addr [Cnt]
Addr Address of device
Cnt Byte count to read (optional, default is one integer)

Output: Four character ASCII string for each integer read separated by a space.

CRD

Description: Continuously read data bytes from the device over the I2C bus. The sub-address must have already been set by the WR operation.

Usage: RD Addr Cnt
Addr Address of device
Cnt Byte count to read

Output: Two character ASCII string for each byte read separated by a space.

HELP

Description: List the available commands.

Usage: HELP

Output: List of commands.



RD

Description: Read data from the device over the I2C bus. The sub-address must have already been set by the WR operation.

Usage: RD Addr Cnt
Addr Address of device to read from
Cnt Data byte count to read

Output: Two character ASCII string for each byte read separated by a space.

SCAN

Description: Scan I2C bus for devices. If no parameters are given, all addresses from 0x01 to 0x7F will be scanned.

Usage: SCAN [Start_Addr] [End_Addr]
Start_Addr Start scanning bus at this address
End_Addr Stop scanning bus at this address

Output: Displays the hex address for each device found bus.

SLOT

Description: Read slot parameters (temperature, voltage, PWM output). Also, set the PWM setting if the optional PWM_Setting parameter is set.

Usage: SLOT Addr [PWM_Setting]
Addr Device I2C address
PWM_Setting PWM duty cycle (range 0 to 100)

Output: Temperature, mVolts, PWM_Setting.

Example: i25C, 1565mV, 50%

WR

Description: Write data to device over the I2C bus. Can also be used to set the R/W pointer for a read operation. If only the i sub-address is given, only the R/W pointer is changed.

Usage: WR Addr sub-addr[data1] ... [dataN]
Addr Write data to this device address
sub-address Set sub-address pointer to this value
dataX Data bytes to be written