LED Display

Device Command

About this Manual

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Command Type (Optional)	Command Name	Command Function	Format	More Information	Usage Example (Optional)
Production/Test	t1 mode	Enter production test program			
	[0] testAllExternalDevice	Test all external device			
	[1] testSPI_FLASH	system, verify whether succeeds			
	[2] test+B24DDR[0x55555555]	Test emory chip read and write			
	[3] testPS_PLTransmission	ARM and FPGA communication verification			
	[4] enableFPGA	Load FPGA			
	[5] getLocalLANInfo	LAN IP			
	[6] testRawFlash	No file system read and write flash			
	[7] testI2C	Test I2C			
	[8] testRTCClock	Test RTC clock			
	[9] testSerialPort	Test serial port, none actually			
	[a] testTemperatureSensor	Test temperature sensor			
	[b] phytestNetworkChip	Test network chip phy			
	[c] testGPPortRegisterReadAndWrite	Test GP port register read and write			
	[d] test88E1543ReadAndWrite	Test 88E1543 read and write			
	[e] resetSPIFlash	Reset SPI Flash			
	[f] setSPIFlashAddressMode	Set SPI Flash address mode			
	[g] testButtonInterruption	Test button interruption			
	[h] testGPIO	Test GPIO			
	[i] testEncryption	Test encryption			
	[j] testPS-PLInterruption	Test PS-PL interruption			
	[k] getSGMIIPHYChipLinkStatus	Get SGMII PHY chip link status			
	[l] setSGMIIChipComboPortMode	Set SGMII chip combo port mode			
	[m] getDebugPHYlLinkStatus	Get debug PHY chip link status			
	[n] getSGMII PHY RJ45 ComboPortStatus	Get SGMII PHY chip RJ45 combo port status			
	[o] testWatchdog	connected			
	[p] getPressAndHoldButtonStatus	Get press and hold button status			
	[r] testRTL8214Reset	Test RTL8214 reset			
	[s] getSGMIIandFPGAStatus	Get SGMII and FPGA status			
	[t] getSGMII PHYChipType	Get SGMII PHY chip type			
	[u] getSGMII 8218 PHY LinkStatus	Get SGMII 8218 PHY link status			
	[v] readRawPartition	Read from raw partition			
	[w] writeRawPartition	Write to raw partition			
	[x] cutdie	Cut die			
	[y] print8218ConfigurationRegisterValue	Print 8218 configuration register value			
	[z] getfbAddressInfo	Get fb address information			
	getLedDispCfg	Get display brightness and color temperature			
	getAttribute	card			
	getScreenModel	Screen type, and driver IC			
	getEdid	Get EDID configuration			
	getRunTime	Sending card running time			
	resourceusage	cpu, memory, network usage			
	fpga xx	Read FPGA xx register value			
	version	FPGA version information			
	recvcardversion	Receiving card version information			
	fdestsize	Zoom target parameter			
	ftest	FPGA read and write test register			
	fparaminit	FPGA parameter is successfully configurated or not.			
	fvideowh	Video input source resolution information			
	fdisplayen	Enable display on video wall			
	fvoutfrm	View input and output framerate			
	fsourcetype	Source type			
	fdectcontrol	Lamp no-current detection			
	fsrcsize	Input source size			
	fmargin	Scaling parameter			
	fmakevs	axi_clk count value			
	frgball	View brightness status			
	frgb3ch	RGB brightness adjust coefficient			
	falignhv	Pre-crop, aligned width and height			

	fdelay	Initiate the second frame slice_done delay capture			
	fvinde	View single/dual sample			
	fvgaset	Enable VGA black edge function, view			
	flogoaddr	Base map RGB separate store memory start address			
	fvgacutlp	Mark number of cut lines after frame end			
	fpackagedelay	Network interface package interval register			
	fvgacutlimit	Network interface package interval register			
	fvgacutlimit	VGA crop YC range			
	fholdparam	Set parameters permanently			
	flednum1	Seven-segment display No.1 code value			
	flednum2	Seven-segment display No.2 code value			
	frefreshtime	Refresh time			
	fledtest	Test mode status			
	fvgacutsize	Lines cropped by VGA			
	fvldsize	Valid pixels of rows and columns by AD			
	fvldallsize	Total pixels of rows and columns by AD			
	fvgasize	VGA output source: valid pixels of rows and columns by AD			
	fvgaallsize	VGA output source: total pixels of rows and columns by AD			
Status Viewing	ftpgcontrol	Get sending card test_pattern TPG enable			
	ftpgactivesize	Rows and columns resolution			
	ftpgpatternctrl	Read pattern mode value			
	ftpgmotionspeed	Speed of frame change			
	fdvifps	View dvi framerate			
	fvgafps	View vga framerate			
	fupscalingtest	View scaling swtich			
	fupscalingmode	View scaling mode			
	fopsubid	Get object of operated receiving sub card			
	frevcardrst	View reset receiving card information			
	fsdf	View guidance code			
	fnetport1--8	View NIC information			
	freadsubparam	View FPGA and application interaction register status			
	fsharectrl	View FPGA and application interaction register status			
	fsharesaddr	area			
	fsharelen	Share data valid length			
	fphycfg	View phy chip			
	fad9388rst	View 9388 reset			
	fch7525rst	View 7525 reset			
	ffpga7619rst	View 7619 reset			
	fhpdctrl	View HPD_SINK level			
	falgincount	Count aligned modules			
	falginfps	Align module frame rate of starting frame and ending frame			
	falgininputcount	Input align module write data valid count			
	falginoutputcount	Valid count on align module data			
	fcontrasten	View contrast enhacement switch			
	fblackstrenth	Black area extension parameter			
	fwhitestrenth	White area extension			
	fthreshold	Noise suppression threshold			
	fcontrastclass	Contrast enhancement level			
	fmatchscene	Switch scene match threshold			
	fsmoothweight	Dynamic contrast change speed			
	fsaturationen	Saturation enhancement switch			
	fsaturationclass	Saturation enhancement strength			
	ftemphumisensor	View temperature and humidity data register			
	flightsensor	View light sensor data register			
	firsensor	View IR command data register			
	ftimesensor	Function card version			
	fprecuth	Pre-crop coordinate register in horizontal direction			
	fprecutv	direction			
	fsubhvsize	Receiving card load register			

	fdma2drdparam	Receiving card horizontal length			
	fdmawrmode	Memory read and write mode			
	mdio_read	SMI bus read PHY register tool			
	getColorInfo	Color temperature			
Parameters Configuration	uploadChip	Trigger ps176 upgrade			
	debugMenu	Operate OSD			
	unpack	Non-4K board updatek upgrade tool			
	unpack_4K	4K board updatek upgrade tool			
	update_kernel_part	Non-4K board BSP program separately upgrade tool			
	update_kernel_part_4K	tool			
	t1	Semi-finished test tool, basic external device test			
	psh	psh service program, dubug login serial port			
	dropbear	ssh service program, ssh login			
	ping	Customize ping command, specify NIC, and force send arp package			
	open_telnet	Open telnet service, disable current service connection, cannot be used			
	open_ssh	ssh service open tool			
	memdev	Physical address read and write test tool			
	mdio_write	SMI bus line write PHY register tool			
	iperf	Network code test tool			
	fb_test	fb loading read and write test tool			
	flash_erase	flash formatting tool for formatting upgrade			
	flash_monitor	System mirror production command			
	hostapd、hostapd_cli iwconfig、iwlist、iwpriv wifi、wpa_cli、wpa_supplicant	WIFI configuration and background service program			