

User's Manual

REV: 1.0

July. 2023



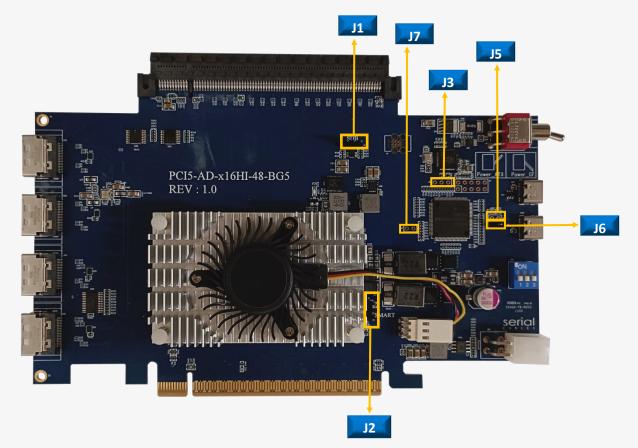
Change history

REV	Change history



Serial Atlas2 ITAP Host Adapter Card

Function Description For Headers

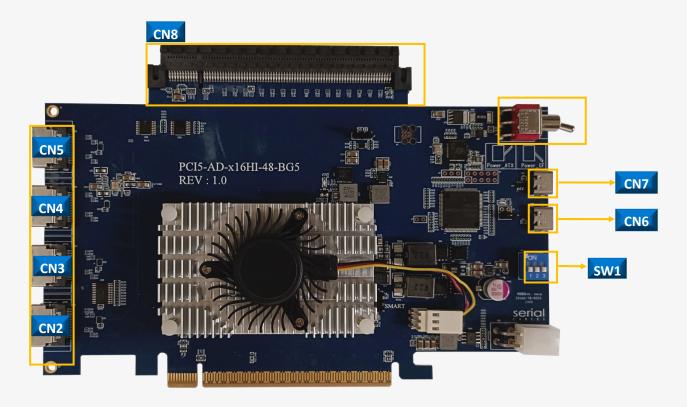


Location	Descriptions	Pinout
	ON: MCU without SDB of switch control for debug purpose	
J6	(etc. needs to access Atlas2 PCIe switch via SDB)	
	OFF: MCU is able to access switch information via SDB (default)	
J1	Atlas2 switch SDB port.	TX/RX/GND
	UART with 3.3V TTL signals level	
	Atlac2 switch LIAPT part, require Atlac2 EW support	ТХ
J2	Atlas2 switch UART port, require Atlas2 FW support	RX
	UART with 3.3V TTL signals level	GND
J3(nonpop)	Reserved I/F for MCU FW debugging	
J5(Nonpop)	Reserved I/F for MCU boot-loader mode	
J7(nonpop)	Reserved I/F for MCU FW upgrading	



Serial Atlas2 ITAP Host Adapter Card

Function Description For Connectors



Location	Descriptions						
CN2:CN5	X4 MCIO(mini-cool edge IO), SFF-TA-1016 connector.						
CN8	PCIe Gen5 X16 Straddle connector.						
CN7	Type-C USB connector for ITAP applications.						
CN6	Type-C USB connector for CLI commands.						
	Slide switch for side-band mode selection.						
SW1	SC mode (Default)						
	ACE mode						
	ACU mode						



Side-Band Mode Descriptions (SW1)

Pin	SC mode	ACE mode	ACU mode
A8	CLK_0_P	CLK_0_P	CLK_0_P
A9	CLK_0_N	CLK_0_N	CLK_0_N
B8	CLK_1_P	PWRDIS	PWRDIS
B9	CLK_1_N	HOST_LED	LINKFAT
A11	ATLAS_SCL	ATLAS_SCL	ATLAS_SCL
A12	ATLAS_SDA	ATLAS_SDA	ATLAS_SDA
B11	PERST#_0	PERST#_0	PERST#_0
B12	PERST#_1	PERST#_1	PERST#_1

SC: Serial cables mode

Use for drive direct attached via MCIO cables, support single port U2/U3 and dual ports U2/U3 cables. visit the website below for more details in cables support https://www.serialcables.com/product-category/gen5-mcio-cables/

ACE: Adapter Card EDSFF

Using MCIO to MCIO cables connect with "MCIO to EDSFF adapter card".

- a.) It is able set PWRDIS in "H" or "L" in EDSFF drives via CLI.
- b.) Turn ON/OFF the Host LED of EDSFF drives via CLI.

ACU: Adapter Card U2

Use MCIO to MCIO cable to connect with "MCIO to U2 adapter card".

- a.) It is able set PWRDIS in "H" or "L" in U2 drives via CLI.
- b.) it is able to manual light ON/FF the fault LED of MCIO to EDSFF card.











U.2 single/dual port drives

E.1L, E1.S, E3 drives



[Atlas2 host card]

[MCIO to MCIO cable]

[MCIO to EDSFF adapter]



Function Description For LEDs



LED5

Location	Color	Description
LED7	Green	Host card Healthy LED 0.5Hz blinking for Host card good 2Hz blinking if any failure events detected, etc. voltages, FAN, and temperatures failed
LED6	Blue	Atlas2 switch Heartbeat LED Blinking: Indicates the Atlas2 switch working in Synthetic switch mode Solid ON: Indicates the Atlas2 switch working in base fanout switch mode
LED5	Red	<u>Atlas2 switch failure LED</u> Solid ON: indicates failure detected in Atlas2 switch
LED1/2/3/4	Red	MCIO Port link matching LEDs Each LED corresponds to MCIO port. LED1, LED4, LED3 and LED2 light when attached devices in MCIO port not link at x4 or 2x2 link width.



MCIO Pins Definition

CON_0	PCI5-AD-x16HI-48-BG5 REV : 1.0
CON_1	
CON_2	
CON_3	

		2	3	5	6	8	9
	Α	PERP15	PERN15	PERP14	PERN14	CLKP1	CLKN1
	В	PETP15	PETN15	PETP14	PETN14	CLKP0	CLKN0
CON_0		14	15	17	18	11	12
	Α	PERP13	PERN13	PERP12	PERN12	I2C_SCL3	I2C_SDA3
	В	PETP13	PETN13	PETP12	PETN12	PERST#_6	PERST#_7
		2	3	5	6	8	9
	Α	PERP11	PERN11	PERP10	PERN10	CLKP3	CLKN3
	В	PETP11	PETN11	PETP10	PETN10	CLKP2	CLKN2
CON_1		14	15	17	18	11	12
	Α	PERP9	PERN9	PERP8	PERN8	I2C_SCL2	I2C_SDA2
	В	PETP9	PETN9	PETP8	PETN8	PERST#_4	PERST#_5
		2	3	5	6	8	9
	Α	PERP7	PERN7	PERP6	PERN6	CLKP5	CLKN5
60N 3	В	PETP7	PETN7	PETP6	PETN6	CLKP4	CLKN4
CON_2		14	15	17	18	11	12
	Α	PERP5	PERN5	PERP4	PERN4	I2C_SCL1	I2C_SDA1
	В	PETP5	PETN5	PETP4	PETN4	PERST#_2	PERST#_3
		2	3	5	6	8	9
	Α	PERP3	PERN3	PERP2	PERN2	CLKP7	CLKN7
	В	PETP3	PETN3	PETP2	PETN2	CLKP6	CLKN6
CON_3		14	15	17	18	11	12
	Α	PERP1	PERN1	PERPO	PERNO	I2C_SCL0	I2C_SDA0

Note: Host card supports 3 types of side-band modes (SC,ACE, and ACU).

The sideband signals listed in table above is for SC mode.



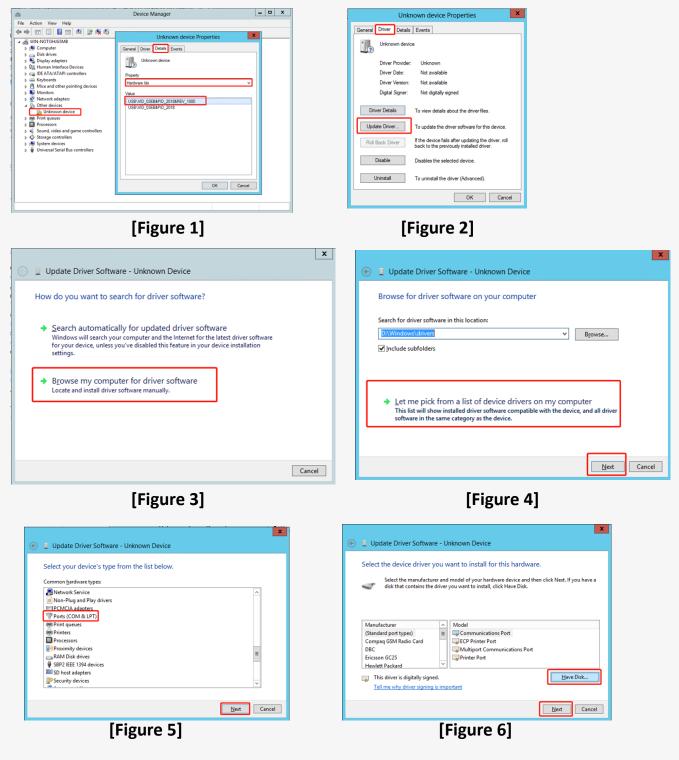
MCU CLI Setup

Step1: USB driver installation.

Note: No USB driver is required for Windows 10 and Linux

Download and install the CDC driver for unidentified device (VID_03EB&PID_2018), Available at:

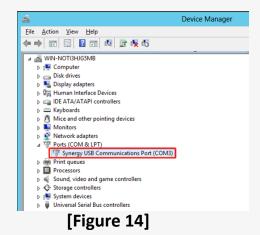
https://www.serialcables.com/wp-content/uploads/2018/11/SynergyUSBCDC 20180518.rar

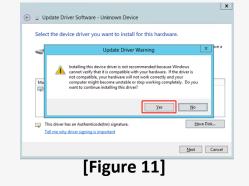




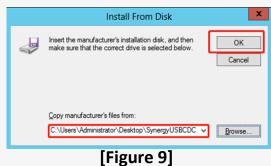
[Figure 13]





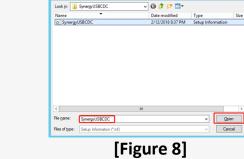




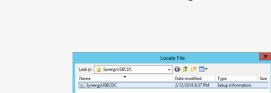














Atlas2 ITAP Host Adapter Card



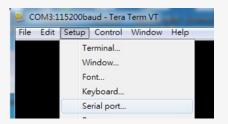
MCU CLI Setup

Step2: Tera-term setting

Step 1. Install and launch Tera Term application (or Hyper Terminal requires version 3.0 or higher).



Step 2: To ensure proper communications between host adapter card and the VT100 Terminal emulation, please configure the VT100 Terminal emulation settings to the values shown below:



Step 3:

For "Port", select COM3 in this example. (Depend on which COM port used on Host)

For "Baud rate", select 115200.

For "Data", select 8 bit. For "Parity", select none.

For "Stop", select 1 bit. For "Flow control", select: none.

Click OK when you have finished your selections.

Tera Term: Serial port set	ab dr
Port:	Сомз - ок
<u>B</u> aud rate:	115200 -
<u>D</u> ata:	8 bit - Cancel
P <u>a</u> rity:	none 🔻
<u>S</u> top:	1 bit 🔹 Help
<u>F</u> low control:	none 🔻
Transmit delay 0 msec/	



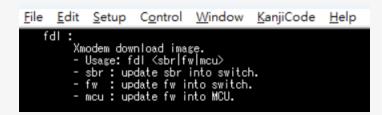
MCU Commands List

Commands	Description
fdl	Update the configuration file or firmware for Atlas2 PCIe switch and MCU FW upgrading
lsd	Shows switch temperature, FAN speed, voltages and Side-band modes.
mw	Write 32bits data into any register as defined in Atlas2 switch
dr	Dump the values of Atlas2 switch for any register with specified address.
dp	Dump the values of Atlas2 switch for any register with specified port number.
df	Dump the values of Atlas2 flash with specified address.
ssdrst	Issue 300ms duration PERST# to attached devices in MCIO ports or straddlePCIe connector.
pwrdis	Set PWRDIS to H state (disable SSD power), or L state (enable SSD power)
hled	Turn ON/OFF the host LED inside EDSFF drive
showport	Show link status for USP in golden finger, DSP for MCIO ports and Straddle port.
bist	On-board I2C devices diagnostic.
spread	Show spread information, set –0.3% or -0.5% SSC in PCIe reference clock to Atlas2 switch.
clk	Show the clock output status or disable/enable the clock output for all MCIO ports.
itap	Set iTAP mode enable
iicwr	SMBus data read from drive attached in MCIO port.
iicw	SMBus data write to drive attached in MCIO port.
ver	Shows card information, MCU FW and Atlas2 FW version.
sysinfo	Shows system information
reset	MCU FW reset (not including Atlas2 PCIe switch)



fdl Command

- 1. Update the configuration file or firmware for Atlas2 PCIe switch.
- 2. on-board MCU FW upgrading
- -Usage: fdl sbr|fw|MCU



sbr=update the SBR file into flash of Atlas2 switch. (Applicable in base switch mode)

fw=program or upgrade FW into flash of Atlas2 switch (Applicable in Synthetic mode)

mcu=on-board MCU FW upgrading

New connection	Alt+N	. : ON		
Duplicate session	Alt+D			
Cygwin connection	Alt+G			
Log				
Comment to Log				
View Log				
Show Log dialog				
Send file				
Transfer	>	Kermit	>	
SSH SCP		XMODEM	>	Receive
Change directory		YMODEM	>	Send
Replay Log		ZMODEM		
TTV Record		B-Plus	>	
TTY Replay		Quick-VAN	>	
Print	Alt+P			
Disconnect	Alt+I			
Exit	Alt+Q			



Isd Command

Shows switch temperature, FAN speed, voltages, current and Side-band modes.

-Usage: Isd

<u>E</u> dit	<u>S</u> etup	Contr	ol <u>W</u>	indow	<u>K</u> anjiCode	<u>H</u> elp
sd						
	lemperat	ure :	37 des	gree		
			4023	rpm		
			2467	mA		
		-	10100			
				m¥ m		
1.	8AV Volt	age :	1842	mΥ		
				my mY		
Band M	ode: SC					
	sd witch Speed: 2 Card ge Sen 1. 1.: 0	sd witch Temperat Speed: 2 Card Current 12V Curr ge Sensors: 12V Volt 1.8V Volt 1.84V Volt 1.25V Volt	sd al: witch Temperature : Speed: Switch Fan : 2 Card Current: 12V Current : ge Sensors: 12V Voltage : 1.84V Voltage : 1.25V Voltage : 0.8V Voltage :	sd al: witch Temperature : 37 deg Speed: 2 Card Current: 4023 2 Card Current: 2467 ge Sensors: 12V Voltage : 12129 1.8V Voltage : 1816 1.8AV Voltage : 1842 0.8V Voltage : 1284 0.8V Voltage : 813	sd al: witch Temperature : 37 degree Speed: 2 Card Current: 4023 rpm 2 Card Current: 2467 mA ge Sensors: 12V Voltage : 12129 mV 1.8V Voltage : 1842 mV 1.25V Voltage : 1842 mV 0.8V Voltage : 813 mV	al: witch Temperature : 37 degree Speed: 2 Card Current: 12V Current : 2467 mA ge Sensors: 12V Voltage : 12129 mV 1.8V Voltage : 1816 mV 1.8AV Voltage : 1842 mV 1.8AV Voltage : 1843 mV 0.8V Voltage : 813 mV

Thermal: Temperature sensor near Atlas2 PCIe switch

Fan Speed: The FAN TACH value reading.

Atlas2 Card current: The P12V consumed current from either ATX connector or Golden finger.

Voltage sensors: Main voltages monitoring in Atlas2 host card.

Side-Band Mode: Shows the side-band mode in running.



mw Command

Write 32bits data into any register as defined in Atlas2 switch

-Usage: mw <register(H)> <data(H)>

-register(H) : register should be 0x0000000 ~ 0xFFFFFFC

-data(H) : data should be 0x00000000 ~ 0xFFFFFFF

File Edit Setup Control Window KanjiCode Help

Write data "0xFFFFFFF" into register address "0xFFF0017C" of Atlas2 PCIe switch



dr Command

Dump the values of Atlas2 switch for any register with specified address.

-Usage: dr <register<H> [count(H)]

-register(H) : register shoule be 0x0000000 ~ 0xFFFFFFC

-count(H) : count should be 0x0000000 ~ 0xFFFFFFC

Eil	e <u>E</u>	dit	<u>S</u> etup	C <u>o</u> ntro	l <u>W</u> indo	w <u>K</u> anji	Code	<u>H</u> elp
Cmd	>dr	60800	000					
				00100006	060400a0 00160403	00010010 000001f1		
608	0002	0:000	OfffO	0001fff1	00000000	00000000		
			100000 134801	00000040 00000008	00000000 03866805	00000128 00000000		
			00000	000000000000000000000000000000000000000	00000000 0052a410	00000000 012c8004		
608	0007	0:000	90020	0042ed05	01030000	00000000		
608	0009	0:000		000000000 81803f3e		00350840 00000000		
			100000	P0000000 00000000	00321000 00000000	000000000000000000000000000000000000000		
			00000					
608	000e	0:000	00000	00000000	00000000	00000000		
608	UUUt	n	100000	00000000	00000000	00000000		

Dump the values in Atlas2 switch registers, start from address "0x60800000".

<u>File Edit Setup Control Window KanjiCode Help</u>

Cmd>dr 60800000 4

60800000:c0341000

Dump the values in Atlas2 switch registers, start from address "0x60800000" with 4bytes count.



dp Command

Dump the values of Atlas2 switch for any register with specified port number.

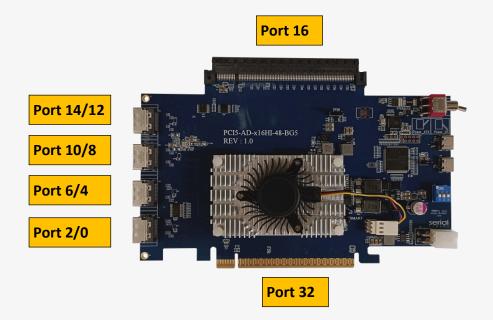
-Usage: dp port_number(D)

-port_number(D) : port_number shoule be 0 ~ 47

<u>F</u> ile	<u>E</u> dit	<u>S</u> etup	C <u>o</u> ntro	l <u>W</u> indo	w	<u>K</u> anjiCode	<u>H</u> elp
Cmd>d	рO						
				060400a0 00160403		10010	
60800	020:00	DOfffO (0001fff1	00000000	000	00000	
60800	040:c8	034801 0	80000008	00000000 03866805	ŎŎŎ		
				00000000 0052a410			
				01030000 00000000		00000 50840	
				011e0003 00321000	~~~	00000	

Dump the values in Atlas2 switch registers for Port "0".

Port number mapping





df Command

Dump the values of Atlas2 flash with specified address.

-Usage: df address(H) [count(H)]

-address(D) : address shoule be 0x0000000 ~ 0xFFFFFFC

-count(H) : count shoule be 0x0000000 ~ 0xFFFFFFC

<u>F</u> ile	<u>E</u> dit	<u>S</u> etup	C <u>o</u> ntro	l <u>W</u> indo	ow <u>K</u> anji	Code	<u>H</u> elp
Cmd>d	f 400						
				60020000	60040000		
00000	410:10	000000	70040000	10000000	00000000		
					00000000		
					00000000		
					00000000		
					00000000		
				01000000	80040000		
				01000000	00240040		
					00000000		
				01000000	02000000		
					00000000		
				00000000	0000c029		
00000	4c0:08			00f020e3	08f09fe5		
	4d0:00		00000000	00000000	00000000		
			00000000		00000000		
00000	4f0:00	000000	00000000	00000000	00000000		

Dump the values in Atlas2 flash registers, start from address "0x00000400".

Î	Eile.	E alta	Cature	Central	Mindaw	<u>K</u> anjiCode	Hala
1	<u>r</u> ile	Ean	Serub	Control	window	Manjicode	Heib

Cmd>df 400 4

00000400:3ba234c0

Dump the values in Atlas2 flash registers, start from address "0x00000400" with 4bytes count.



ssdrst Command

Issue PERST# with 300ms duration to attached devices in MCIO ports.

-Usage: ssdrst <con(D)|all> [channel(C)]

-con(D) : con number should be 0 ~ 4

-channel(C) : channel number should be a or b



CON Mapping





pwrdis Command (Applicable in ACE and ACU modes)

Set the signal level of pwrdis in MCIO connectors to be high or low.

- Usage: pwrdis [<con(D)|all> <h/l>(C)]
- con(D) : con number should be 0 ~ 3
- h(C) : disable SSD power
- I(C) : enable SSD power
 - Ex : pwrdis all h
 - Ex : pwrdis 1 h

File	Edi	t Setu	o Cont	rol V	Vindo	w KanjiCo	ode Help
Cmd>p	wrdi	s all h					
			level to level to				
Set c	:on 2	pwrdis	level to	high	succe	ss.	
	011 0	pinaro	10101 00	- man	00000		

Set PWRDIS to "H" state in all of MCIO ports

File Edit Setup Control Window KanjiCode Help Cmd>pwrdis 1 h Set con 1 pwrdis level to high success. Cmd>pwrdis 1 l Set con 1 pwrdis level to low success. Set PWRDIS to "H" or "L" state in MCIO port 1



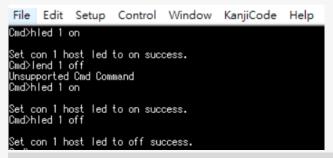
hled Command (Applicable in ACE mode)

Set hled signals in EDSFF SSD to be on or off.

- Usage: htled <con(D)|all> <on|off>
- con(D) : con number should be 0 ~ 3
- Ex : hled all on
- Ex : hled 1 on

File	Edit	Set	up C	ontrol	Window	KanjiC	ode	Help
Cmd>h	led a	ll on						
				succes				
Set c Set c	on 1 on 2	host host	led on led on	succes succes	s. s.			
				succes				

Turn on all of host LEDs in EDSFF drives.



Turn ON/OFF host LED in EDSFF drive which attached in MCIO port1



showport Command

Show link status for USP in golden finger, DSP for MCIO ports and Straddle port.

-Usage: showport

Refer to page 17 for Port number and page 19 for CON number mapping.

Negotiated link speed/width Maximum link speed/width Control Window KanjiCode Help <u>File Edit Setup</u> Cmd>showport Atlas2 chip ver: AO _____ ____ _____ Upstream 32, speed = Gen5, width = 8, port ax_speed = Gen5, max_width = 16 Downstrea Gen4, width 2, port 14. speed max_speed width por speed max_speed speed width DOF width DOI speed width spe speed pot POI speed speed POI POI Straddle ort _____ _____ _____ on4: port max_speed = Gen5, 16, speed = Gen5, width 16max_width = 16

USP (Upstream port), the port in Golden finger.

Example:

The maximum link speed is Gen5 and link width to x16 in default.

The negotiated link speed and width to Gen5 x8.

DSP (Downstream ports), the ports in MCIO and straddle connector.

Atlas2 PCIe switch supports DPR (Dynamic Port Reconfiguration), it configures Gen5 x1 for 16 lanes

in MCIO ports 0 to 15.

Example:

- 1. A Gen5 x4 device attached in CON1, it shows the negotiated speed/width to be Gen5x4 in Port 8.
- 2. A Gen4 dual port SSDs attached in CON0, it shows Gen4x2 in Port 12 and Port 14.
- 3. A Gen5 device attached in straddle connector, it shows the negotiated speed/width as Gen5 x16 in



bist Command

On-board I2C devices diagnostic.

- Usage: bist



Show all of on-board I2C devices for debug purpose.



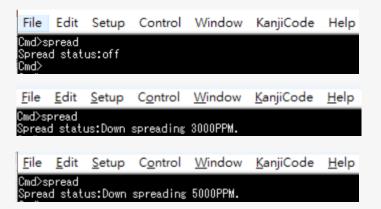
Spread Command

Set the PCIe reference clock to Show spread information or set -0.5% SSC in PCIe reference clock to Atlas2 switch.

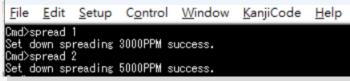
- -Usage: spread [1|2|off]
- -1 : Down spreading 3000PPM.
- -2 : Down spreading 5000PPM.
- off : Turn off spread.

1. Spread command usually used for SRIS testing.

It requires to power cycle host card to apply new "spread" setting.



Shows the reference clock of Atlas2 switch running in CFC (spread off) or SSC (3000ppm or 5000ppm).



Set to PCIe reference clock to SSC(3000ppm or 5000ppm).



clk Command

Show the clock output status or disable/enable the clock output for all MCIO ports and

straddle connector.

Usage: clk [en | dis]

clk disable usually used for SRNS or SRIS testing.

<u>F</u> ile	<u>E</u> dit	<u>S</u> etup	C <u>o</u> ntrol	<u>W</u> indow	<u>K</u> anjiCode	<u>H</u> elp
Cmd>c						
		enable enable				
		enable				
		enable enable				
Out06	: clk	enable				
		enable enable				
Out 09	: clk	enable				
0ut 11	: clk	enable				

Show the clock output status for Atlas2 PCIe switch, all of MCIO ports and straddle connector.

File	Edit	Setup	Control	Window	KanjiCode	Help					
Cmd≻clk dis OK, clock output disable Cmd∑											
<u>F</u> ile	<u>E</u> dit	<u>S</u> etup	C <u>o</u> ntrol	<u>W</u> indow	<u>K</u> anjiCode	<u>H</u> elp					
Out01: Out02: Out03: Out05: Out06: Out06: Out07: Out08: Out09:	clk c clk c clk c clk c clk c clk c clk c clk c clk c c clk c	disable disable enable disable disable disable disable disable disable disable									

1. Enable or disable clock output are for all of clocks in MCIO ports and straddle.

The PCIe reference clock to Atlas2 PCIe switch is always enabled.

- 2. Clock output/disable feature is allowed for dynamically changed, it doesn't need to power cycle host card to apply new setting.
- 3. The clock enable/disable setting will be stored in MCU and applied automatically in next time host card power on.



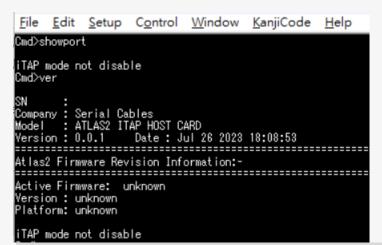
Itap Command

Set iTAP mode enable.

Usage: itap [en|dis]

Enable the ITAP mode for embedded PCIe analysis support.

Disable or enable ITAP setting.



Note: The showport command doesn't support in ITAP mode also it can't read the PCIe switch

FW version in ver command.



iicwr Command

SMBus data read from drive attached in MCIO ports and straddle connector.

-Usage: iicwr <Addr(H)> <con(D)> <ReadByte(D)> <WriteData(H)>

-Addr(H) : Device address

C-on(D) : Con should be $0 \sim 4$

-ReadByte(D) : Max read byte is 32 byte

-WriteData(D) : Max write byte is 32 byte

Ex : iicwr d4 1 8 0



Read 8 bytes data starts from register "0" of I2C slave address "0xd4" in drive which attaches in MCIO CON1.

Refer to page 19 for CON number mapping.



iicw Command

SMBus data write to drive attached in MCIO ports and straddle connector.

-Usage: iicw <Addr(H)> <conD)> <WriteData(H)...>

-Addr(H) : Device address

-con(D) : Con should be $0 \sim 4$

-WriteData(D) : Max write byte is 128 byte

Ex : iicw d4 1 ff

<u>File Edit Setup Control Window KanjiCode H</u>elp

Cmd≻iicw d4 1 ff

Write Data [0] = ff

Write data "0xff" to I2C slave address "0xd4" in drive which attaches in MCIO CON 1.

Refer to page 19 for CON number mapping.



Serial Atlas2 ITAP Host Adapter Card

ver Command

Shows card information, MCU FW and Atlas2 FW version.

-Usage: ver

File	Edit	Setup	Control	Wind	ow	KanjiCo	de	Help)
Compai Model	ny:S		010001 bles AP HOST C Date : Ju		2023	18.08.53			
		=======	ision Inf	======					
Versi	on : u	ware: u nknown nknown	nknown						



sysinfo Command

Show system information.

Sysinfo command is for host card diagnostic, it combines ver, lsd, pwrdis, spread, clk,

showport, and bist commands.

- Usage: sysinfo

<u>File Edit Setup Control Window KanjiCode H</u> elp	<u>File Edit Setup Control Window KanjiCode H</u> elp
Cmd≻sysinfo	showport
ver	Atlas2 chip ver: A0
	upstream
S/N : B5A062308010001 Company : Serial Cables	uSP: port 32, speed = Gen1, width = 0, max_speed = Gen5, max_width = 16
Model : ATLAS2 ITAP HOST CARD Version : 0.0.1 Date : Jul 26 2023 18:08:53	
	Downst ream
Atlas2 Firmware Revision Information:-	ConO: port 15, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1 ConO: port 14, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
Active Firmware: unknown Version : unknown	Con0: port 13, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1 Con0: port 12, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
Platform: unknown	Con1: port 11, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
	Con1: port 10, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1 Con1: port 9, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
lsd	Con1: port 8, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1 Con2: port 7, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
Thomas I	Con2: port 6, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
Thermal: _ Switch Temperature : 32 degree	Con2: port 5, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1 Con2: port 4, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
Fans Speed: Switch Fan : 4056 rpm	Con3: port 3, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1 Con3: port 2, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
Atlas2 Card Current: 12V Current : 749 mA	Con3: port _1, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
Voltage Sensors:	Con3: port 0, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
12V Voltage : 12351 mV 1.8V Voltage : 1811 mV	Straddle Port
1.8AV Voltage : 1837 mV 1.25V Voltage : 1288 mV	Con4: port 16, speed = Gen1, width = 0, max_speed = Gen5, max_width = 1
0.8V Voltage : 814 mV	
Side-Band Mode: SC	bist
pwrdis	Seen 120 shares 0 devices
	Scan I2C channel O devices Device address:0xa0 ok.
Not support in SC mode	Device address:0×12 ok.
	Scan I2C channel 1 devices Device address:0xe2 ok.
spread	
Spread status:OFF	
clk	
Out00: clk enable Out01: clk enable	
Out02: clk enable	
Out03: clk enable Out05: clk enable	
Out06: clk enable Out07: clk enable	
Out08: clk enable	
Out09: clk enable	

Out09: clk enable Out11: clk enable



Serial Atlas2 ITAP Host Adapter Card

reset Command

MCU FW reset (It won't reset Atlas2 PCIe switch)

-Usage: reset

File	Edit	Setup	Control	Window	KanjiCode	Help
Cmd>r Syste Cmd>	eset m Rese	t				