# Epson EB-1430Wi\_1430WT Device Driver NetLinx API

#### 1. XDD Information

**Device Details** 

Device Type: Video Projector

Manufacturer: Epson

Model(s):

EB-1430Wi\_1430WT

Device Revision: 1.0.0

Support Communication Types: IP, Serial

Serial Connection Parameters:
Physical Layer: RS-232
Baud Rate: 9600
Data bits: 8
Stop bits: 1
Parity: None
Flow control: None

IP Connection Parameters:
Default IP Address: 0.0.0.0
Default IP Port: 3629

File Name: Epson\_Video\_Projector\_EB-1430Wi\_1430WT\_1.0.0.xdd

Author's Email: projector.development@exc.epson.co.jp

Default Device Warming Time: 30 seconds Default Device Cooling Time: 3 seconds

The following are comments provided by the author of the XDD.

SUPPORTED MODEL(S)

BrightLink Pro 1430Wi/EB-1430Wi/EB-1430WT/CB-1430Wi

#### 2. Channel Information

The following are NetLinx Channels supported by this Device Driver. " \* " denotes channels provided by Duet2 base and not protocol provided in this Device Driver.

Channel	Port	Description	
		Function: Power State	
9*	1	Momentary Function: Cycle power when channel is activated	
		NetLinx Constant: POWER	
		Function: Volume	
		Description: Ramping Function: Volume is ramped up while channel is active	
24	1	NetLinx Constant: VOL_UP	
		ON: Increment Volume by 1.	
		OFF:	
		Function: Volume	
		Description: Ramping Function: Volume is ramped down while channel is active	
25	1	NetLinx Constant: VOL_DN	
		ON: Decrement Volume by 1.	
		OFF:	
		Function: Mute	
26*	1	Momentary Function: Cycle volume mute when channel is activated	
		NetLinx Constant: VOL_MUTE	
		Function: Power State	
27	1	Description: Momentary Function: Power is turned on when channel is activated	
		NetLinx Constant: PWR_ON	
	1	Function: Power State	
28		Description: Momentary Function: Power is turned off when channel is activated	
		NetLinx Constant: PWR_OFF	
	1	Function: Aspect Ratio	
4.40*		·	
142*		Momentary Function: Cycle aspect ratios when channel is activated Cycle Order: AUTO, NORMAL, 16:9, FULL, ZOOM, NATIVE	
		NetLinx Constant: ASPECT_RATIO	
		Function: Brightness	
148	1	Description: Momentary Function: Brightness is incremented when channel is activated	
		NetLinx Constant: BRIGHT_UP	
		Function: Brightness	
149	1	Description: Momentary Function: Brightness is decremented when channel is activated	
		NetLinx Constant: BRIGHT_DN	
		Function: Color	
150	1	Description: Momentary Function: Color is incremented when channel is activated	
		NetLinx Constant: COLOR_UP	
		Function: Color	
151	1	Description: Momentary Function: Color is decremented when channel is activated	
		NetLinx Constant: COLOR_DN	
152		Function: Contrast	
	1	Description: Momentary Function: Contrast is incremented when channel is activated	
		NetLinx Constant: CONTRAST_UP	
		Function: Contrast	
153	1	Description: Momentary Function: Contrast is decremented when channel is activated	
		NetLinx Constant: CONTRAST_DN	
		Function: Sharpness	
154	1	Description: Momentary Function: Sharpness is incremented when channel is activated	
		NetLinx Constant: SHARP_UP	

155 1		Function: Sharpness  Description: Momentary Function: Sharpness is decremented when channel is activated  NetLinx Constant: SHARP DN		
156	1	Function: Tint Description: Momentary Function: Tint is incremented when channel is activated		
457	4	NetLinx Constant: TINT_UP  Function: Tint  Description Memortant Function: Tint is degreemented when changel is estimated.		
157	1	Description: Momentary Function: Tint is decremented when channel is activated  NetLinx Constant: TINT_DN  Function: Input Source		
196*	1	Function: Input Source  Momentary Function: Cycle input source when channel is activated Cycle Order: WHITEBOARD, COMPUTER, VIDEO, HDMI1, HDMI2, USB_DISPLAY, USB1, USB2, LAN		
		NetLinx Constant: SOURCE_CYCLE		
199	1	Function: Mute Description: Discrete Function: Volume mute is on while channel is active NetLinx Constant: VOL_MUTE_ON ON: ON		
		OFF: OFF		
210*	1	Function: Picture Mute  Momentary Function: Cycle picture mute when channel is activated  NetLinx Constant: PIC_MUTE		
211	1	Function: Picture Mute  Description: Discrete Function: Picture Mute is on while channel is active  NetLinx Constant: PIC_MUTE_ON  ON: ON  OFF: OFF		
213*	1	Function: Freeze  Momentary Function: Cycle freeze when channel is activated  NetLinx Constant: PIC_FREEZE		
214	1	Function: Freeze Description: Discrete Function: Freeze is on while channel is active NetLinx Constant: PIC_FREEZE_ON ON: ON OFF: OFF		
251*	1	Function: Power State  Description: Communication is established with device while channel is on  NetLinx Constant: MODULE_DEVICEONLINE  ON: Communication online.  OFF: Communication offline.		
252*	1	Function: Power State  Description: Module data is synchronized with device while channel is on  NetLinx Constant: MODULE_DATA_INITIALIZED  ON: Data initialized.  OFF: Data not initialized.		
253*	1	Function: Power State  Description: Feedback: Indicates Power is starting up and cannot accept commands  NetLinx Constant: POWER_STARTUP_FB  ON: Device warming.  OFF: Device done warming.		
254*	1	Function: Power State  Description: Feedback: Indicates Power is shutting down and cannot accept command:  NetLinx Constant: POWER_SHUTDOWN_FB  ON: Device cooling.  OFF: Device done cooling.		

255*	1	Function: Power State  Description: Discrete Function: Power is on while channel is active  NetLinx Constant: POWER_ON
		ON: Device ON. OFF: Device OFF.
		OFF. Device OFF.

#### 3. Level Information

The following are NetLinx Levels supported by this Device Driver. All levels support the NetLinx range [0-255].

Level	Port	Description
		Function: Volume
		Description: Set volume level
1	1	NetLinx Constant: VOL_LVL
		Minimum: 0
		Maximum: 255
		Function: Brightness
		Description: Set brightness level
10	1	NetLinx Constant: BRIGHT_LVL
		Minimum: 0
		Maximum: 255
		Function: Color
		Description: Set color level
11	1	NetLinx Constant: COLOR_LVL
		Minimum: 0
		Maximum: 255
	1	Function: Contrast
		Description: Set contrast level
12		NetLinx Constant: CONTRAST_LVL
		Minimum: 0
		Maximum: 255
		Function: Sharpness
		Description: Set sharpness level
13	1	NetLinx Constant: SHARP_LVL
		Minimum: 0
		Maximum: 255
		Function: Tint
14	1	Description: Set tint level
		NetLinx Constant: TINT_LVL
		Minimum: 0
		Maximum: 255

## 4. Command Information

The following are NetLinx Commands supported by this Device Driver.

Functional Group	Port	SNAPI2 Command	
Aspect Ratio	1	?ASPECT  Description: ?ASPECT - Query aspect ratio. Responds with: ASPECT- <aspectratio></aspectratio>	
Aspect Ratio	1	?ASPECTRATIOCOUNT  Description: ?ASPECTRATIOCOUNT - Query aspect ratio count. Responds with: ASPECTRATIOCOUNT- <count></count>	
Aspect Ratio	1	?ASPECTRATIOPROPERTIES  Description: ?ASPECTRATIOPROPERTIES Query properties for all aspect ratios, one ASPECTRATIOPROPERTY response for each aspect ratio. ASPECTRATIOPROPERTYsindexsidex-	
Aspect Ratio	1	?ASPECTRATIOPROPERTY  Description: ?ASPECTRATIOPROPERTY- <index> - Query properties for single aspect ratio. Responds with: ASPECTRATIOPROPERTY-<index>,<displayname>,<value></value></displayname></index></index>	
Aspect Ratio	1	ASPECT-NORMAL ASPECT-16:9 ASPECT-AUTO ASPECT-FULL ASPECT-ZOOM ASPECT-NATIVE  Description: ASPECT- <aspectratio> Set aspect ratio.</aspectratio>	
Lamp History	1	?LAMPTIME  Description: ?LAMPTIME - Query for lamp time. Responds with: LAMPTIME- <time> Where: <time> is in hours</time></time>	
Power State	1	?COOLDOWN  Description: ?COOLDOWN - Query for shut down time. Responds with: COOLDOWN- <time> Where: <time> is in seconds</time></time>	

Power State	1	?WARMUP  Description: ?WARMUP - Query for start up time. Responds with: WARMUP- <time> Where: <time> is in seconds</time></time>	
Power State	1	COOLDOWN  Description: COOLDOWN- <seconds> - Set shut down time. Where: <time> is in seconds</time></seconds>	
Power State	1	COOLING  Description: COOLING- <time> - Cooling down counter time. Where: <time> is seconds remaining</time></time>	
Power State	1	COUNTERNOTIFY  Description: COUNTERNOTIFY- <state> - Turn power counter notification on or off. Where: <state> is 1 or 0</state></state>	
Power State	1	WARMING  Description: WARMING- <time> Warming up counter time, <time> is seconds remaining</time></time>	
Power State	1	WARMUP  Description: WARMUP- <seconds> - Set warm up time. Where: <time> is in seconds</time></seconds>	
Input Source	1	?INPUT  Description: ?INPUT - Query for the current input. Responds with: INPUT- <device label=""> Where: <device label=""> is one of the values returned in the query ?INPUTLIST.</device></device>	
Input Source	1	?INPUTCOUNT  Description: ?INPUTCOUNT Query for the number of inputs	
Input Source	1	?INPUTLISTCOUNT  Description: ?INPUTLISTCOUNT - Query for the number of input groups. Responds with: INPUTLISTCOUNT- <input count=""/>	

Input Source 1 <i< td=""><td>?INPUTPROPERTIES  Description: ?INPUTPROPERTIES - Query input properties. Responds with one INPUTPROPERTY response for each input: INPUTPROPERTY- <index>,<inputgroup>,<signaltype>,<devicelabel>,<displayname>, Where: <index> is a virtual input number between 1 and <count>. <inputgroup> is the integer value of the virtual input port on the device (mutually exclusive group) <signaltype> <devicelabel> is the label on the device <displayname> is the text shown on the device display.</displayname></devicelabel></signaltype></inputgroup></count></index></displayname></devicelabel></signaltype></inputgroup></index></td></i<>		?INPUTPROPERTIES  Description: ?INPUTPROPERTIES - Query input properties. Responds with one INPUTPROPERTY response for each input: INPUTPROPERTY- <index>,<inputgroup>,<signaltype>,<devicelabel>,<displayname>, Where: <index> is a virtual input number between 1 and <count>. <inputgroup> is the integer value of the virtual input port on the device (mutually exclusive group) <signaltype> <devicelabel> is the label on the device <displayname> is the text shown on the device display.</displayname></devicelabel></signaltype></inputgroup></count></index></displayname></devicelabel></signaltype></inputgroup></index>	
Input Source	1	?INPUTPROPERTY  Description: ?INPUTPROPERTY- <index> -    Query input properties for single input. Where:    <index> is a virtual input number between 1 and <count>    Responds with:    INPUTPROPERTY-<index>,<inputgroup>,<signaltype>,<devicelabel>,<displayn <index=""> is a virtual input number between 1 and <count> <inputgroup> is the integer value of the virtual input port on the device (mutually exclusive group).    <signaltype> <devicelabel> is the label on the device.    <displayname> is the text shown on the device display.</displayname></devicelabel></signaltype></inputgroup></count></displayn></devicelabel></signaltype></inputgroup></index></count></index></index>	
Input Source	1	INPUT-VIDEO INPUT-HDMI1 INPUT-USB1 INPUT-USB_DISPLAY INPUT-LAN INPUT-COMPUTER INPUT-HDMI2 INPUT-USB2 INPUT-WHITEBOARD  Description: INPUT- <displayname> Set the current input.</displayname>	
Device	1	LISTSET- <list name="">  Description: LISTSET-<name>,<key>,<value>[;<key>,<value>] - Command to create a PropertyList. Where: <name> is the PropertyList name. <key> is the property key. <value> is the property value. LIST APIs are to be used for user defined property list, these APIs are not intended to be used for well known SNAPI properties.</value></key></name></value></key></value></key></name></list>	
Description: LISTSELECT- <name>,<index> - Command to a PropertyList to select the element at index. Where: <name> is the PropertyList name. <index> is the one-based decimal ordinal value of a property in the list, or key name. LIST APIs are to be used for user defined property list, these APIs are no intended to be used for well known SNAPI properties.</index></name></index></name>		Description: LISTSELECT- <name>,<index> - Command to a PropertyList to select the element at index. Where: <name> is the PropertyList name. <index> is the one-based decimal ordinal value of a property in the list, or key name. LIST APIs are to be used for user defined property list, these APIs are not</index></name></index></name>	

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Device 1		LISTNEXT- <list name="">  Description: LISTNEXT-<name> - Command to iterate in a forward* direction to the PropertyList's next selected element. *Forward means increasing ordinal value. Where: <name> is the PropertyList name. LIST APIs are to be used for user defined property list, these APIs are not intended to be used for well known SNAPI properties.</name></name></list>	
Device	1	LISTPREV- <list name="">  Description: LISTPREV-<name> - Command to iterate in a backward* direction to the PropertyList's next selected element. *Backward means decreasing ordinal value. Where: <name> is the PropertyList name. LIST APIs are to be used for user defined property list, these APIs are not intended to used for well known SNAPI properties.</name></name></list>	
Device	1	?LISTSELECT- <li>clist name&gt;  Description: ?LISTSELECT-<name> - Query to discover a PropertyList's selected element. Where: <name> is the PropertyList name. If <name> is not recognized, no response. If no selected element, Responds with: LISTSELECT-<name>,0 Where: <name> is the PropertyList name. Otherwise: Responds with: LISTSELECT-<name>,<index>,<key>,<value> Where, <name> is the PropertyList name. <index> is the PropertyList name. <index> is the PropertyList name. <index> is the property List name. <index> is the property List name. <index> is the property List name. <index> is the property key. <value> is the property key. <value> is the property key. <value> is the property value. LIST APIs are to be used for user defined property list, these APIs are not intended to be used for well known SNAPI properties.</value></value></value></index></index></index></index></index></index></name></value></key></index></name></name></name></name></name></name></li>	
Device	1	?LISTSIZE- <list name="">  Description: ?LISTSIZE-<name> - Query to discover a PropertyList size. Where: <name> is the PropertyList name. If <name> is not recognized, no response; otherwise, Responds with: LISTSIZE-<name>,<size> Where: <name> is the PropertyList name. <size> is a decimal integer representing the size of the list. LIST APIs are to be used for user defined property list, these APIs are not intended to be used for well known SNAPI properties.</size></name></size></name></name></name></name></list>	
Device	?LIST- <list name="">  Description: ?LIST-<name> - Query to discover a PropertyList contents. Where: <name> is the PropertyList name. If <name> is not recognized, no response; otherwise. a series of NetLinx strings. one for each element in the PropertyList</name></name></name></list>		

Device	1	?FWVERSION  Description: ?FWVERSION - Query for the device firmware version, Responds with: FWVERSION- <version></version>	
Device	1	?VERSION  Description: ?VERSION - Query for the module version, Responds with: VERSION- <version></version>	
Device	1	?DRIVERVERSION  Description: ?VERSION - Query for the device driver version, Responds with: DRIVERVERSION- <version> (Only valid for Driver Design Modules)</version>	
Device	1	DEBUG- <state>  Description: DEBUG-<state> - Set the debug state. Where: <state> is 1-4 for ERROR, WARNING, DEBUG, INFO</state></state></state>	
Device	1	?DEBUG  Description: ?DEBUG - Query the debug level, Responds with: DEBUG- <state> Where: <state> is 1-4 for ERROR, WARNING, DEBUG, INFO</state></state>	
Device	1	REINIT  Description: REINIT - Reinitialize communication with the device	
Device	1	Diagnostic_Mode- <mode>  Description: NOT FOUND</mode>	
Device	1	?PROPERTY-IP_Address  Description: ?PROPERTY-IP_Address Query the current value of IP address.	
Device	1	PROPERTY-IP_Address, <xxx.xxx.xxx.xxx hostname="" or="">  Description: PROPERTY-IP_Address,<xxx.xxx.xxx.xxx> - or PROPERTY-IP_Address,<hostname> - Set the value of IP address. Where: <xxx.xxx.xxx.xxx> is an IP address. <hostname> is a host name. REINIT required to take affect.</hostname></xxx.xxx.xxx.xxx></hostname></xxx.xxx.xxx.xxx></xxx.xxx.xxx.xxx>	

Device	1	PROPERTY-Port, <port number="">  Description: PROPERTY-Port,<port number=""> - Set the value of the port number associated with the IP address. Where: <port number=""> is a port number. REINIT required to take affect.</port></port></port>	
Device	1	?PROPERTY-Port  Description: ?PROPERTY-Port - Query the current value of the port number. Associated with PROPERTY-IP_Address.	
Device	1	PROPERTY-Baud_Rate, <baud rate="">  Description: PROPERTY-Baud_Rate,<baud rate=""> - Where: <baud rate=""> is a serial port baud rate. Set the value of the baud rate associated with the Serial port. REINIT required to take affect.</baud></baud></baud>	
Device	1	?PROPERTY-Baud_Rate  Description: ?PROPERTY-Baud_Rate - Query the current value of the baud rate. Associated with the Serial port.	
Device	1	?PROPERTY-Device_ID  Description: ?PROPERTY-Device_ID - Query the current value of the device id. If supported by the device this is the id of the end device.	
Device	1	PROPERTY-Device_ID, <device id="">  Description: PROPERTY-Device_ID,<device id=""> - Set the current value of the <device id="">. Where: <device id=""> is a new device ID. If supported by the device this is the id of the end device. REINIT required to take affect.</device></device></device></device>	
Device	1	PROPERTY-Poll_Time, <time>  Description: PROPERTY-Poll_Time,<time> - Set the current value of the poll timer interval. Where: <time> is expressed in milliseconds. Warning setting the interval lower than 10,000ms (10 seconds) is not recommended. REINIT is not required to take affect.</time></time></time>	
Device	1	?PROPERTY-Poll_Time  Description: ?PROPERTY-Poll_Time - Query the current value of the poll time interval.	
Device	1	PROPERTY-Online_Timeout, <time>  Description: PROPERTY-Online_Timeout,<time> - Set the current value of the online timeout interval. Where: <time> is expressed in seconds. This interval is the maximum time the device will remain in the online state given that no communication has been received from the device. REINIT required to take affect.</time></time></time>	

		?PROPERTY-Online_Timeout
Device	1	Description: ?PROPERTY-Online_Timeout - Query the current value of the online timeout interval.
		?PROPERTY-Minimum_Command_Interval
Device	1	Description: ?PROPERTY-Minimum_Command_Interval - Query the current value of the Minimum Time Interval Between Command Messages (in milliseconds). This property is read-only.
		PASSTHRU- buffer>
Device	1	Description: PASSTHRU- SendSend a message directly to the device. Where:    Where is the data to send
		PASSBACK- <state></state>
Device	1	Description: NOT FOUND
		PROPERTY- <property name,value=""></property>
Device	1	Description: PROPERTY- <name>,<value> - Set the property to a value. Where: <name> is the property name. <value> is the property value.</value></name></value></name>
		?PROPERTY- <property name=""></property>
Device	1	Description: ?PROPERTY- <name> Query for the value of property. Responds with: PROPERTY-<name>,<value></value></name></name>

## 5. Custom Command Information

No Custom NetLinx Commands supported by this Device Driver.	

# 6. HAS Properties Information

The following NetLinx HAS Properties are supported by this Device Driver.

Port	Satisfied	HAS Property Query
1	?PROPERTY-Command-Holdoff	FALSE
1	?PROPERTY-Has-Aspect-Ratio	TRUE
1	?PROPERTY-Has-Aspect-Ratio-Cycle	TRUE
1	?PROPERTY-Has-Auto-Focus	FALSE
1	?PROPERTY-Has-Auto-Focus-Cycle	FALSE
1	?PROPERTY-Has-Auto-Iris	FALSE
1	?PROPERTY-Has-Auto-Iris-Cycle	FALSE
1	?PROPERTY-Has-Brightness	TRUE
1	?PROPERTY-Has-Color	TRUE
1	?PROPERTY-Has-Contrast	TRUE
1	?PROPERTY-Has-Filter	FALSE
1	?PROPERTY-Has-Focus	FALSE
1	?PROPERTY-Has-Focus-Ramp	FALSE
1	?PROPERTY-Has-Focus-Speed	FALSE
1	?PROPERTY-Has-Freeze	TRUE
1	?PROPERTY-Has-Freeze-Cycle	TRUE
1	?PROPERTY-Has-Input-Select	TRUE
1	?PROPERTY-Has-Input-Select-Cycle	TRUE
1	?PROPERTY-Has-Iris	FALSE
1	?PROPERTY-Has-Iris-Ramp	FALSE
1	?PROPERTY-Has-Iris-Speed	FALSE
1	?PROPERTY-Has-Lamp	TRUE
1	?PROPERTY-Has-Menu	FALSE
1	?PROPERTY-Has-Menu-10Key	FALSE
1	?PROPERTY-Has-Menu-Navigate	FALSE
1	?PROPERTY-Has-PIP	FALSE
1	?PROPERTY-Has-PIP-Cycle	FALSE
1	?PROPERTY-Has-PIP-Position-Cycle	FALSE
1	?PROPERTY-Has-Picture-Mute	TRUE
1	?PROPERTY-Has-Picture-Mute-Cycle	TRUE
1	?PROPERTY-Has-Power	TRUE
1	?PROPERTY-Has-Power-Cycle	TRUE
1	?PROPERTY-Has-Sharpness	TRUE
1	?PROPERTY-Has-Tint	TRUE
1	?PROPERTY-Has-Volume	TRUE
1	?PROPERTY-Has-Volume-Mute-Cycle	TRUE
1	?PROPERTY-Has-Volume-Ramp	TRUE
1	?PROPERTY-Has-Zoom	FALSE
1	?PROPERTY-Has-Zoom-Ramp	FALSE
1	?PROPERTY-Has-Zoom-Speed	FALSE

# 7. Properties Information

The following NetLinx Properties are supported by this Device Driver.

Port	Property Query	Value
1	?PROPERTY-Lamp-Count	1
1	?PROPERTY-Menu-List	None Provided.
1	?PROPERTY-Menu-Navigate-List	None Provided.
1	?PROPERTY-PRESETCOUNT	0

#### 8. Sample NetLinx Code

#### The following is sample NetLinx code.

```
PROGRAM NAME='Main'
(* System Type : NetLinx
DEVICE NUMBER DEFINITIONS GO BELOW
DEFINE_DEVICE
dvSerialPort = 5001:1:0
dvIpPort = 0:4:0
vdvMyDevice = 41001:1:0
CONSTANT DEFINITIONS GO BELOW
       DATA TYPE DEFINITIONS GO BELOW
DEFINE_TYPE
       VARIABLE DEFINITIONS GO BELOW *)
CHAR MyXDDFile[] = 'Epson_Video_Projector_EB-1430Wi_1430WT_1.0.0.xdd'
LATCHING DEFINITIONS GO BELOW *)
(***********************************
(* MUTUALLY EXCLUSIVE DEFINITIONS GO BELOW
DEFINE MUTUALLY EXCLUSIVE
     SUBROUTINE/FUNCTION DEFINITIONS GO BELOW
(* EXAMPLE: DEFINE_FUNCTION <RETURN_TYPE> <NAME> (<PARAMETERS>) *)
(* EXAMPLE: DEFINE_CALL '<NAME>' (<PARAMETERS>) *)
STARTUP CODE GOES BELOW
DEFINE_MODULE 'DeviceDriverEngine' MyDevice(vdvMyDevice, dvSerialPort, MyXDDFile)
THE EVENTS GO BELOW
DEFINE EVENT
       THE ACTUAL PROGRAM GOES BELOW
           END OF PROGRAM
    DO NOT PUT ANY CODE BELOW THIS COMMENT
```

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