



RPC PROTOCOL

Command	Description	Usage
GetFirmwareVersion	Returns the firmware Version	method=GetFirmwareVersion
GetSerialNumber	Returns the Serial Number of Device	method=GetSerialNumber
Net_GetIPAddress	Returns the IP address	method=Net_GetIPAddress
Net_GetSubnetMask	Returns the Subnet Mask	method=Net_GetSubnetMask
Net_GetMac	Returns Mac Address	method=Net_GetMac
Serial_GetSettings	Returns Serial configuration	method=Serial_GetSettings
Serial_ConfigSettings	Set the serial configuration Param1- Serial config format	method=Serial_ConfigSettings&Param1=9600,8,NO NE,1
SetDefaultConfig	Set the device to default configuration	method=SetDefaultConfig
AD_GetPortCount	Returns the number of analog input ports present in the device	method=AD_GetPortCount
AD_MaxVoltage	Returns the maximum analog input voltage that the device supports	method=AD_MaxVoltage
AD_MaxDigital	Returns the maximum raw input of ADC that the device supports	method=AD_MaxDigital
AD_MinVoltage	Returns the minimum analog input voltage that the device supports	method=AD_MinVoltage
AD_MinDigital	Returns the minimum raw input of ADC that the device supports	method=AD_MinDigital
AD_ReadDigital	Returns the current raw input of ADC pin. param1 – 1 or 2 (A/D io pin no:)	method=AD_ReadDigital¶m1=1
AD_ReadVoltage	Returns the current analog input voltage at analog input pin. param1 – 1 or 2 (A/D io pin no:)	method=AD_ReadVoltage¶m1=1
DIO_GetPortCount	Returns the number of digital input/output ports present in the device	method=DIO_GetPortCount
DIO_IsOutput	Returns true if the pin is set to digital output mode, else false param1 – 1 or 2 (A/D io pin no:)	method=DIO_IsOutput¶m1=1
DIO_OutputMode_Close	Sets the digital output pin to High state param1 – 1 or 2 (A/D io pin no:)	method=DIO_OutputMode_Close¶m1=1
DIO_OutputMode_Open	Sets the digital output pin to Low state param1 – 1 or 2 (A/D io pin no:)	method=DIO_OutputMode_Open¶m1=1
DIO_Read	Returns the input at digital input pin param1 – 1 or 2 (A/D io pin no:)	method=DIO_Read¶m1=2
DIO_SetOutputMode	Set the A/D io pin to digital output mode param1 – 1 or 2 (A/D io pin no:)	method=DIO_SetOutputMode¶m1=1
DIO_SetInputMode	Set the A/D io pin to digital input mode param1 – 1 or 2 (A/D io pin no:)	method=DIO_SetInputMode¶m1=1
AD_SetInputMode	Set the A/D io pin to analog input mode param1 – 1 or 2 (A/D io pin no:)	method=AD_SetInputMode¶m1=1
Relay_GetPortCount	Returns the number of relay ports in the device	method=Relay_GetPortCount
Relay_GetState	Returns the state of relay port param1 – 1 or 2 (Relay no:)	method=Relay_GetState¶m1=2
Relay_Off	Set the relay to on state param1 – 1 or 2 (Relay no:)	method=Relay_Off¶m1=2
Relay_On	Set the relay to off state param1 – 1 or 2 (Relay no:)	method=Relay_On¶m1=2
Serial_SetManualMode	No Params	method=Serial_SetManualMode
Serial_Read	Param1=1 (Port Number)	method=Serial_Read&Param1=1
Serial_ReadBufferCount	Param1=1 (Port Number)	method=Serial_ReadBufferCount&Param1=1



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Serial_ClearReadBuffer	Param1=1 (Port Number)	method=Serial_ClearReadBuffer&Param1=1
SendIR	Sends IR signal for the specified command in group via the IR port	method=SendIR&Param1=TEST8_IR&Param2=VO LDWN
IR_ListAllGroups	Returns all IR groups ie present in the device	method=IR_ListAllGroups
IR_ListAllCommandsInGroup	Returns all the IR commands in the specified group Param1 = Filename	method=IR_ListAllCommandsInGroup&Param1=WIN_LG.WIR
AD_SetParams	Sets the Input parameters for analog input Mode will not be changed to Analog input after this operation. Param1=IP Param2 = variable name (Max length is 16) Param3 = entry_val (0 to 5) Param4=exit_val (0 to 5) Param5=notify_entry_on/off (y,n) Param6=notify_exit_on/off (y,n)	method=AD_SetParams&Param1=169.254.242.129&Param2=PUSH2&Param3=2.5&Param4=4.2&Param5=n&Param6=y
DIO_SetParams	Sets the Digital Input Parameters. Mode will not be changed to digital input with this operation Param1 – port (1,2) Param2-mode: 1(PULL_UP),2(HIGHZ) Param3 – ip Param4 – variable (Max Length is 16)	method=DIO_SetParams&Param1=2&Param2=2&Param3=169.254.242.129&Param4=PUSH2
Relay_Get_Boot_State	Returns the Boot state of Relays	method=Relay_Get_Boot_State&Param1=1
Relay_Boot_State	Sets the boot state of the relay Param1= Relay no. (1,2) Param2 = mode(0-OFF, 1- ON, 2 – LAST)	method=Relay_Boot_State&Param1=1&Param2=0/1/2



TELNET PROTOCOL

SI no:	Function	Description	Example usage
1	set relay <relay_no> <ON/OFF>	Switch the relay to both 'ON' and 'OFF' state.	set relay 1 ON
2	get relay_state <relay_no>	Returns the present relay state.	get relay_state 1
3	set adio_mode<pin_no;> <mode>	Set the A/D I/O pin mode. mode - DIGITAL_INPUT/ DIGITAL_OUTPUT/ANALOG_INP UT	set adio_mode 2 ANALOG_INPUT
4	get digital_in <pin_no>	Returns the input at A/D I/O pin configured in DIGITAL_INPUT mode.	get digital_in 1
5	set digital_out <pin_no> <state>	Set the output state of A/D I/O pin configured in DIGITAL_OUTPUT mode. state – HIGH/LOW	set digital_out 2 HIGH
6	get analog_in <pin_no> <unit>	Returns the input at A/D I/O pin configured in ANALOG_INPUT mode in millivolt or raw hex units. unit - VOLTAGE/DIGITAL	get analog_in 1 VOLTAGE
7	set baudrate <baud,parity>	Configure baudrate and parity of serial port.	set baudrate 9600,8N1
8	set ip <mode> <ip> <subnet> <gateway>	Configure network parameters of the device.	set ip STATIC 192.168.1.100 255.255.0.0 192.168.1.1 set ip DHCP
9	set hostname <hostname>	Set/change the hostname of the device.	set hostname LXC_1
12	get version	Returns the firmware version.	get version
17	get baudrate	Returns the baud rate of the serial port.	get baudrate
18	get ip	Returns network parameters of the device.	get ip
19	get hostname	Returns the hostname of the device.	get hostname
20	factory_reset	Resets the DXB - 8i settings to factory default.	factory_reset
21	Reboot	Reboots the device.	reboot
22	send ir <group> <ir_cmd>	Send IR signal for the specified command in group via the IR port	send ir TEST8_IR VOLUP
23	get ir_groups	Returns all IR groups ie present in the device	get ir_groups
24	get ir_commands	Returns all the IR commands in the specified group	get ir_commands WN_LG.WIR
25	read serial	Reads the serial data stored in buffer in Manual Mode	read serial
26	clear serial_buffer	Clears the serial buffer in Manual mode	clear serial_buffer
27	get serial_buffer_count	Gets the buffer count in Manual mode	get serial_buffer_count
28	set relay_boot <relay_no.> <boot_state>	Sets the Boot state of relays	set relay_boot 2 LAST
29	get relay_boot <relay_no>	Gets the boot state value of relays	get relay_boot 1
30	set port_processing <remote_processing_mode> <ip> <port>	Sets the serial port processing mode.	set port_processing telnet_client 192.168.1.191 6800
31	set digital_in_params <in_port> <input_mode> <ip>	Sets the digital input parameters. Note: This command does not set	set digital_in_params 1 PULL_UP 169.254.242.129



	<var>	the current mode to digital input.	PUSH2
32	set analog_in_params <ip> <var> <range_low> <range_high> <notify_entry> <notify_exit> <range_low> < range_high>	Sets the analog input parameters Note: This command does not set the current mode to digital input.	set analog_in_params 192.168.1.234 push_23 0.025 3.9 y y
33	get adio_mode <in_port>	Returns the current mode of input ports	get adio_mode 1
34	get analog_in_params	Returns the analog input parameters	get analog_in_params
35	get digital_in_params <in_port>	Returns the Digital input parameters of corresponding ports	get digital_in_params 1
36	bootloader_update	Sets the board in to bootloader update mode. The device listens for tftp file of bootloader and updates the bootloader with the received file.	bootloader_update
37	set debug <state>	Enables/Disables the debug prints State – ON, OFF	set debug ON set debug OFF

Note:

- ! **Minimum Firmware version 1.04**
- ! **LXC-1 is listening for telnet commands in 6970.**
- ! **relay_no** value ranges from 1- 2
- ! **pin_no** value ranges from 1- 2
- ! A/D I/O pin 2 doesn't support analog input mode. Both digital input and digital output mode are supported in both the pins.
- ! **boot_state** – ON, OFF, LAST
- ! **remote_processing_mode** – telnet_client, telnet_server, push_port, push_var
- ! **in_port** – 1,2
- ! **input_mode** – PULL_UP, HIGHZ
- ! **var** – Max 16 characters