

Partner: SoftdB

Model: SoftdB SmartSMS-NET 5535 and 6424 Family v1.2

Device Type: Sound Masking System DSP

GENERAL INFORMATION:

SIMPLWINDOWS NAME :	SoftdB SMS-NET 5535 Family v1.2 SoftdB SMS-NET 6424 Family v1.2
CATEGORY :	Sound Masking DSP
VERSION :	v1.2
SUMMARY :	This module allows a Crestron 3-series processor to send volume levels, as well as receive real volume feedbacks, hardware and software information.
GENERAL NOTES :	This module provides the connection to a SMS-NET DSP for sound masking.
CRESTRON HARDWARE REQUIRED :	3-series processor ONLY
SETUP OF CRESTRON HARDWARE :	Must be a 3-series processor ONLY. Please make sure the SMSNET.clz Simpl# compiled module is located in the same folder as your program or Simpl+ module.
VENDOR FIRMWARE :	<p>Tested on a SmartSMS-NET Slave model S12-4ch, firmware 13h, hardware 04h.</p> <p>Tested on a SmartSMS-NET Master model ML48-8ch, firmware 01h, hardware 01h.</p> <p>Tested on a SmartSMS-NET Secondary model SL24-4ch, firmware 06h, hardware 01h.</p> <p>On units of the 5535 family (generally 4 output channels), firmware must be of 19d (13h) or more. On units of the 6424 family (8 output channels), firmware must be of 01d (01h) or more.</p> <p>All previous firmware versions are not supported and will not work properly. To know your device's family and/or update the firmware, please refer to SoftdB, or the mandated certified designer/installer.</p>

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VENDOR SETUP :	<p>TCP/IP client port is 50000d.</p> <p>Unit will accept only one (1) TCP/IP connection at a time, including SoftdB softwares and mobile apps.</p> <p>Once connected, the unit will refuse any subsequent TCP/IP connection. Programming should be done to connect the TCP/IP connection when going in the control page, and disconnect it when exiting the page.</p> <p>Although TCP/IP connections were proven very stable over a long period of time, best practices recommend adding a timeout of about 30 seconds on the control page to prevent any end user from staying in the page and block subsequent TCP/IP connections.</p>
NETWORK RECOMMENDATIONS :	<p>It is strongly recommended to work in a fixed IP or IP reservation network.</p>
OTHER DETAILS :	<p>Unit magic number (see feedbacks). To ensure all the unit information is correct, this must be of 5309h (\x53\x09), otherwise all unit information is invalid. Mostly for internal use and can be hidden from client's interface.</p>
CABLE DIAGRAM :	<p>N/A</p>

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CONTROL:

{{TCP/IP_Client_>>_Connect-F}}	D	Digital signal to be connected from the Connect-F output on a TCP/IP Client symbol.
{{TCP/IP_Client_>>_status}}	A	Analog signal to be routed from the status output on a TCP/IP Client symbol.
{{TCP/IP_Client_>>_RX\$}}	S	Serial signal to be routed from the RX\$ output on a TCP/IP Client symbol.
Force_connect	D	Pulse to connect to device
Force_Disconnect	D	Pulse to disconnect from device
Connect_toggle	D	Toggle to connect/disconnect from device
Volume_*_up	D	Pulse to turn up volume of corresponding output (speaker)
Volume_*_down	D	Pulse to turn down volume of corresponding output (speaker)
AuxVolume_01_*_up	D	Pulse to turn up volume of corresponding auxiliary output
AuxVolume_01_*_down	D	Pulse to turn down volume of corresponding auxiliary output
Unit_Read_infos	D	Pulse to request hardware information
Unit_Read_volumes	D	Pulse to request volume levels

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FEEDBACK:

{{Connect_>>_TCP/IP_Client}}	D	Digital signal to be connected to the Connect input on a TCP/IP Client symbol.
{{TX\$_>>_TCP/IP_Client}}	S	Serial signal to be routed to the TX\$ input on a TCP/IP Client symbol.
IP_Connection_Status	A	Analog feedback of TCP/IP connection status
IP_Connection_Status_txt	S	Serial feedback of TCP/IP connection status
Connected_fb	D	Digital feedback of TCP/IP connection status
Volume_*_value_fb	A	Analog Value of current output volume level
AuxVolume_01_*_value_fb	D	Analog Value of current auxiliary volume level
Unit_Name_txt	S	Unit name
Unit_Mac_Address_txt	S	Unit MAC address
Unit_Project_Name_txt	S	Unit Project Name
Unit_Config_Version_txt	S	Unit Config Version
Unit_Unit_type_txt	S	Unit type
Unit_Master_Unit_Mac_address_txt	S	Master unit MAC address to which a slave can optionally connected to.
Unit_Master_Unit_Name_txt	S	Master unit name to which a slave can optionally connected to.
Unit_DSP_Firmware_Version_txt	S	Unit internal DSP firware version

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Unit_DSP_Hardware_Version_txt	S	Unit internal DSP firmware version
Unit_Serial_Number_txt	S	Unit Serial number
Unit_Magic_Number_txt	S	Unit magic number. To ensure all the unit information is correct, this must be of 5309h (\x53\x09), otherwise all unit information is invalid.
To_Device\$	S	Serial signal to be routed to a TCP/IP connection

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TESTING:

OPS USED FOR TESTING :	CP3, 3-series, cp3_1.501.0103.puf
SIMPL WINDOWS USED FOR TESTING :	4.05.04
SIMPL+ USED FOR TESTING :	4.04.01
DEVICE DB USED FOR TESTING :	80.00.002.00
CRESTRON DB USED FOR TESTING :	60.00.006.00
SYMBOL LIBRARY USED FOR TESTING :	1016
SAMPLE PROGRAM :	SoftdB SMS-NET Example Program v1.2.smw
REVISION HISTORY :	<p>V1.0 - Initial Release</p> <p>V1.1 - Protocol enhancements</p> <p>V1.2 - Added logic to prevent misuse of volume levels that could cause the SMS-NET to wait indefinitely for a string that would never come.</p> <ul style="list-style-type: none">- Included all TCP/IP connection logic directly inside module to minimize errors and ease implementation in SimplWindows.- Addition of more important details in help file documentation.