

OHIO INFORMATION

Programming via IP over Gigabit connection

Ohio box software (Ohio_MainApp.bin) and core firmware (Chip.rbf) can be programmed via the Gigabit network connection from any PC on the network (Console PC or an Engineers laptop connected to the switch & configured with a suitable IP & subnet mask).

File transfer using this method is much quicker than via the serial port, however there is no readback verification to confirm the ID of the unit being programmed, the programming progress / success, that it boots normally after programming, and there is no way to reset the unit after programming (Units need a reset before changes are operative). Therefore this method has not yet been verified by a Calrec service engineer. This method may be preferable when time is limited however it is strongly advised that each box programmed is reset and verified by RS232 for version and normal boot messaging.

Method:

At a DOS prompt enter the following command/s (example's used for IP address and file location, edit as applicable):

TFTP -i 192.168.2.51 put C:\products\Ohio\V1.02\Ohio_MainApp.bin Ohio_MainApp.bin

TFTP -i 192.168.2.51 put C:\products\Ohio\V3.05\Chip.rbf Chip.rbf

Alternatively a shortcut to *Windows\system32\TFTP.exe* can be copied to the *documents and settings\send to* folder and the shortcut properties>target changed to (example IP used) *C:\WINDOWS\system32\tftp.exe -i 192.168.2.51 put*. The software / firmware file can then be transferred to the device by right clicking on the relevant version of the Ohio_MainApp.bin / Chip.rbf file and selecting the correct shortcut for the IP of the box being programmed. Separate shortcuts need to be created for each IP, therefore this method is only efficient if several changes are expected on the same network, or if all boxes are physically close to hand they can all be set to the same IP by the DIP switches & one shortcut can be used to quickly program all boxes (ensure only one box is on the network at a time if setting the IP's all the same & ensure IP's set correctly once completed).

Miscellaneous Ohio Notes

Network configuration and operation is the same as with the original Hydra I/O boxes. When creating a new IO box in the net config, options are now available for the box type. SFRIOB units have predefined I/O type and quantity. If using original RIOB's select "Custom" and configure I/O slots as normal.

LED's on SFRIOB's are similar to RIOB's – Port connected LED lit when link detected to another network device (e.g. switch) Active LED should flash in a regular pattern after being connected to a Hydra I/F for a couple of seconds. LED 1 shows unit heartbeat, LED 2 shows sync received, LED 8 on red after box boots.

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