



# Sierra Radio Systems Station Controller

## Extended Device Addressing Guide



[sierraradio.net](http://sierraradio.net)

Version 1



## Extended Device Addressing

The DCN protocol supports using any two digit numeric address. This means that you can use any address from 01 to 99 for a control module. Remember 00 is reserved for the main control computer.

As you already read on the previous page, you can easily set your device address using the built-in hardware DIP switches. To set the address to a value from 16 to 99 you will use the USB serial console port on your control module.

Plug a USB cable from your computer into the USB-C console port on the control module. Using a dumb terminal program like Putty or Minicom, you can interact with your control module. Set your terminal parameters to 9600 baud. You may also want to set your terminal program to echo characters back to you as you type them.

Use the following commands to set and verify the module's DCN address.

### **//CONFIG**

This command will return several current settings including the device's DCN address.

### **//SETADDR, xx**

This command will set the device's address to xx where xx is a two digit numeric value. Anything else will be ignored.

For example to set the device to address 45 enter:

```
//SETADDR, 45
```

You can confirm the setting with the **//CONFIG** command.

To release the address set with the **//SETADDR** command and allow the DIP switches to be used for address setting enter the command.

```
//SETADDR
```

Note there is no comma and argument following "SETADDR"

## Reserved Addresses

In general, any two digit numeric value can be used as a device address except 00 which is reserved for the main control computer.

We recommend following these device numbering guidelines.

- **Do not use address 00 – Reserved for the main control computer.**
- **Assign your devices sequential addresses starting with 01.**
- **Avoid assigning addresses 90-99. These may be used for future applications.**

Why do we recommend these guidelines?

- Addresses 01-15 can be set using the DIP switches.
- There are corner cases, where the address value may be used for timing re-try's on the network and the lower the number the faster the potential response time. Arbitrary large values may cause unnecessary long delays
- We may assign addresses for special use cases in the future. We will always start at the high end of the address range so pick lower values to be on the safe side.