



## Synthesizer Serial Commands.

Serial Command	Function
F0 xx .xxxxxxxxxxxxxx	Set Frequency in MHz to nearest 1μHz. Decimal point required.
P1 N	Set Phase. N is an integer from 0 to 16383. Phase is set to $N*360^{\circ}/16384$ or $N*\pi/8192$ radians. Sets the relative phase of the synthesized output sine wave. This is useful for adjusting relative phase after the Rubidium has obtained lock.
Vi N	Set voltage level of output. N can range from 0 (off) to 4095 (no decimal point allowed). Voltage level is scaled to $N/4096$ . If $N > 4095$ , the scaling is turned off and the output is set to maximum.
E x	Serial Echo Control. x=D for Echo <b>D</b> isable, x=E for Echo <b>E</b> nable. Default is <b>E</b> nabled.
S	Save current state into EEPROM and sets valid flag. State saved is used as default upon next power up or reset.
R	Reset. This command resets the unit. EEPROM data is preserved and, if valid, it is used upon restart. This is the same as cycling power or toggling the open collector RES* line on the connector.
CLR	Clear. This command clears the EEPROM valid flag and restores all factory default values.
QUE	Read present frequency, phase and status. Returns an 42-character string of internal settings, lock status and software revision number. Hexadecimal format.

### ORDERING INFORMATION:

#### Base Model

<b>1450B</b>	10MHz, 5MHz, 1MHz, or 100kHz. Auxiliary outputs can be set to one of these.
<b>1450B/01</b>	Adds one synthesizer. Customer to specify configuration.
<b>1450B/02</b>	Adds two synthesizers. Customer to specify configuration.
<b>1450B/03</b>	Adds three synthesizers. Customer to specify configuration.
<b>1450B/04</b>	Adds four synthesizers. Customer to specify configuration.

Configurations are designated by adding a two-character dashed suffix to the Base Model. For example, a special version of the 1450B/01 might be designated the 1450B/01-AA. These suffixes are uniquely assigned per configuration and depend upon customer requested outputs.

### ACCESSORY:

#### Model

<b>GPS1</b>	Auto-surveying GPS smart antenna system for 1pps locking and tracking. Includes antenna, 30 meter cable, mating connectors, power supply and instructions.
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