Midnight

Command Reference Sheet **NUE-PSK version v4 Software**

Solutions **Keyboard Hot Keys**

F1 to F7 Play Macros

Ctrl-Fn Record Macros. Enter keystrokes. (Ctrl-Z to conclude entry.)

Alt-Fn Delete Macro associated with Fn.

Toggle TUNE mode on/off. Accessible only in RX or TX.

(Not in Setup, or Macro Recording.)
Turn on Beacon Mode. 'BCN' displayed.

Shft-F9

Alt-F9 Turn off Beacon Mode.

Alt-K Insert counter in Beacon Mode.

Toggle between RX and TX. (Not in Setup, or Macro Recording)
Display "MyCall" from EEPROM. F10

F11

Toggle on/off a display of modem's current settings. F12 Ctrl-M Record "MyCall" into EEPROM. (Ctrl-Z to conclude entry.) Record "TheirCall" into RAM. (Ctrl-Z to conclude entry.) Ctrl-T

Alt-M Insert "MyCall" into a Macro. Insert "TheirCall" into a Macro. Alt-T

Save the current frequency into EEPROM so that it can be restored at the next power-up. Ctrl-F

Retrieve the saved freq and makes it the current freq. Alt-F

Ctrl-Tab Display the current frequency (audio)

Ctrl-A Enable AFC Disable AFC Alt-A

PgUp Increase input gain (PGA) PgDn Decrease input gain (PGA) Clear the text area of the LCD Ctrl-L

Clear the keyboard buffer. While receiving, keystrokes Ctrl-K

are not displayed—this allows clearing the buffer, so that callsign may be entered, or re-entered in case you think

that you have entered the wrong callsign.

Ctrl-B Clears the internal buffers

Ctrl-Q Inserts a TX-OFF control character in the TX buffer, or Macro.

Ctrl-S Insert a TX-ON control character in the TX buffer, or Macro

Ctrl-O Toggles the display backlight on and off.

Ctrl-U Toggles REC mode on/off for recording text to USB drive. Enter filename to be used for recording text to USB drive. Enter free-form text to be recorded to USB drive. Ctrl-N Ctrl-I

Reverse the frequencies of Mark and Space in RTTY mode Ctrl-R

Ctrl-C Toggle FIGS in RTTY mode

Enter Date. (Ctrl-Z to conclude entry.) Enter Time. (Ctrl-Z to conclude entry.) Ctrl-D Alt-D

USB-Related Hot Keys:

Ctrl-U: Toggle REC mode on/off. (REC displayed on right edge of display.) REC mode is aborted if no flash device present in connector. If no USB card detected, the modem's piezo is beeped after 5 seconds and REC mode is aborted.

Ctrl-N: Enter name for USB file to be recorded. Ctrl-Z to conclude entry. Standard 8.3 file names accepted. (E.g., "FD2008-2.txt")

Insert text into recording file. Ctrl-Z to conclude entry. The USB file must already be open (Ctrl-U) for this to work. The recording file remains open for additional Rx or Tx text, until Ctrl-U pressed again to close the recording file.

Spectrum Cursor Tuning Rates:

Left: 1x: Left Arrow Right: 1x: Right Arrow 2x: Down Arrow 2x: Up Arrow 5x: ALT + Left Arrow 5x: ALT+ Right Arrow 10x: ALT + Down Arrow 10x: ALT + Up Arrow

Config Menu:

Mode: BPSK, QPSK, QPSK/R, RTTY, CW

Squelch Threshhold: 25, 50

CWID: On, Off

PGA Gain: x1, x5, x16, x32 Tune Increment: Single, Double

Battery Voltage TX Audio Level

Save Config Beacon Mode PC Bootload Flash Bootload Download Config Upload Config **RTCC Display** Date Format

Recent Change Summary

1) Upload & Download Config

Ability to write (upload) the modem's settings and macro text strings to the USB flash memory stick for editing on PC, and then transfer (download) the edited config.txt file back to the

2) USB Add-On card support

The USB add-on card makes your NUE-PSK Digital Modem more useful with its ability to record QSO text (receive and transmit) to a USB flash memory stick for archival and remote printing. Use of the USB card requires v1.33 (or later) software containing new keyboard commands for controlling the card functions, plus an improved and consistent set of text editing commands. The USB card fits into the existing modem enclosure with minimal mods, and a replacement bottom chassis is available with pre-drilled holes for the connectors.

- 3) USB-specific keyboard hot keys added: Ctrl-U, Ctrl-N, Ctrl-I
- Text entry made more intuitive and consistent ...
- keystrokes made visible for all commands
- specific keyboard hot keys entered before text
- all text entry concluded with Ctrl-Z
 text entry beyond buffer limits sounds the beeper
 Beacon Mode has been added to allow repetitive
- automatic transmissions to be made for experimental far-field measurement tests. Able to insert a counter in Beacon macro 7.
- 6) RTTY mode supported (transmit and receive).
 - Ctrl-R reverses the frequency order of Mark and Space Operate transceiver in USB mode. Press Ctrl-R if received
- signal not being immediately decoded at the cursors.

 RTCC Supported (on optional USB card).

 CW Mode Supported ... See CW-related commands shown in bold on the Hot Key Map on page 2.

Example Usage of Keyboard Hot Keys

1) Record MyCall to EEPROM ...

Ctrl-M n2apb Ctrl-Z

2) Record CQ sequence into F1 macro ...

Ctrl-F1 Ctrl-S cq cq cq de Alt-M Ctrl-Q Ctrl-Z

Play the macro by pressing F1 and see ...

Tx comes on, "cq cq cq de n2apb", Tx turns off

Example Usage of Recording to USB Device

- 1) Power up modem (flash mem device not inserted)
- 2) Enter filename for file to be recorded ...

Ctrl-N FieldDay.txt Ctrl-Z

3) Plug in flash device, turn on REC mode to begin recording Čtrl-U

and see the USB LED blink fast.

- 4) Insert block of free form text to Flash filename . Ctrl-I Field Day 2008 QSO recordings Ctrl-Z
- 5) Tune around and find a station to call
- 6) Enter Tx mode per usual (F10) to call. Entered text is recorded to USB filename.
- 7) Enter Rx mode per usual (F10) to receive. Receive text is recorded to USB filename.
- 8) Insert free form text to USB file ..

Ctrl-I Time ending QSO is 2130 hrs. Ctrl-Z

- 9) Close USB file recording session ... Ctrl-LI
 - and see the USB LED stop blinking and go solid on.
- 10) Remove Flash memory device for remote viewing, archival or printing.

For further information, including a full Operating Manual, visit www.nue-psk.com

An active discussion group is maintained on Yahoo Groups in the NUE-PSK section. Visit http://groups.yahoo.com to get

In case of questions or technical problems, please contact support@nue-psk.com

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Command Reference Sheet HOT KEY MAP

KEY A Enable AFC Enable AFC Disable AFC CW Goertzel Bandwidth Clear internal buffers C CW Char SPACE fence Toggle RTTY FIGS Enter date (MM/DD/CCYY) Enter Time (hh:mm:ss) E F CW FFT bucket counts Save freq in EEPROM Retreve saved freq	
B CW Goertzel Bandwidth Clear internal buffers C CW Char SPACE fence Toggle RTTY FIGS D Enter date (MM/DD/CCYY) Enter Time (hh:mm:ss) E F CW FFT bucket counts Save freq in EEPROM Retreve saved freq	
C CW Char SPACE fence Toggle RTTY FIGS Enter date (MM/DD/CCYY) Enter Time (hh:mm:ss) E CW FFT bucket counts Save freq in EEPROM Retreve saved freq	
D Enter date (MM/DD/CCYY) Enter Time (hh:mm:ss) E CW FFT bucket counts Save freq in EEPROM Retreve saved freq	
E CW FFT bucket counts Save freq in EEPROM Retreve saved freq	
F CW FFT bucket counts Save freq in EEPROM Retreve saved freq	
·	
G C	
H	
I Enter text to be RECed (toggle)	
J	
K Clear keyboard buffer Add counter in beacon mode	
L Clear text display	
M Enter My Call (MC) Insert My Call in macro or Tx queue	ı
N Enter REC file name	
O Toggle back light	
P Keyboard to Tx buffer	
Q Insert Tx OFF in macro	
Reverse RTTY Mark & Space	
S Serial Number Insert Tx ON in macro	Tx queue
T CW Goertzel threshold Enter Their Call (TC) Insert Their Call in macro or Tx que	ue
U Toggle REC (record) mode	
V	
W CW Word SPACE fence	
X Serial Number/TC Insert Serial Number in macro or	Tx queue
Υ	
Z CW Skew count Input string terminator	
F1 Play macro 1 Record macro 1 Delete macro 1	
F2 Play macro 2 Record macro 2 Delete macro 2	
F3 Play macro 3 Record macro 3 Delete macro 3	
F4 Play macro 4 Record macro 4 Delete macro 4	
F5 Play macro 5 Record macro 5 Delete macro 5	
F6 Play macro 6 Record macro 6 Delete macro 6	
F7 Play macro 7 Record macro 7 Delete macro 7	
F8 Toggle TUNE mode	
F9 Save_Macro Beacon OFF	
F10 Toggle Rx & Tx	
F11 Display My Call	
F12 Toggle settings display	
Tab Dummy Function Display current freq	
Pg-Up Increase PGA gain	
Pg-Dn Decrease PGA gain	
L-Arrow Tune down x 1 Tune down x 5	
R-Arrow Tune up x 1 Tune up x 5	
D-Arrow Tune down x 2 Tune down x 10	
U-Arrow Tune up x 2 Tune up x 10	