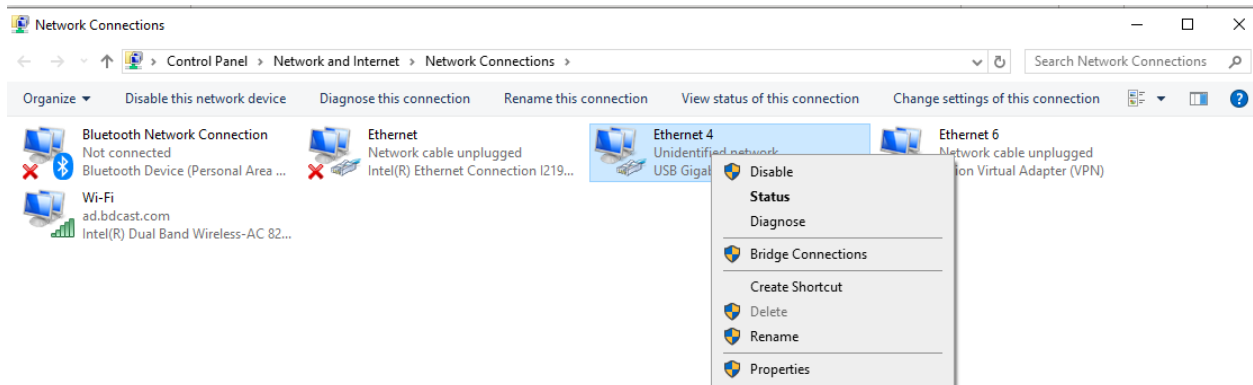


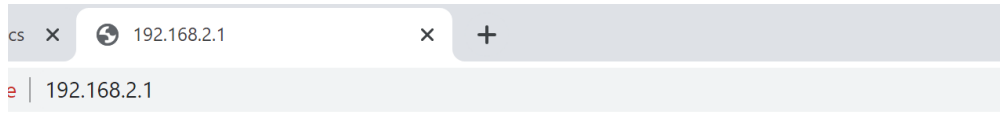
EL-SERIAL_ETHERNET-KIT General Setup Guide

Please read the Quick Start Guide included with the ATC-1000

1. You need to set up your computer to work on another network. To do this open network connections and right click on your active network. (Pictured below). You will then select Properties and from the list, highlight **internet protocol version 4** and then select properties. From the menu select use the following IP address. Enter 192.168.2.2 for the IP and 255.255.255.0 for the subnet mask and enter OK. Once this is setup, you will be able to talk to the ATC-1000



2. Plug the ATC-1000 in and connect to ethernet.
3. Go to your web browser and enter the IP 192.168.2.1 (This is the default IP for the ATC-1000. It will bring up the following login screen. The default ID is **admin** and the default password is **system**).



USER LOG IN

Site:	192.168.2.1
ID:	<input type="text" value="admin"/>
Password:	<input type="password" value="*****"/>
<input type="button" value="OK"/>	

- Once logged in, you will see the administrator settings. This is the default and you do not need to change anything. Select the UART tab from the left.

[Administrator Setting](#)
[TCP Mode](#)
[UDP Mode](#)
[UART](#)
[Reset Device](#)

Administrator Setting

Kernel Version	V1.44.3.10 2017/06/29			
MAC Address	00:11:22:9D:DE:D4			
Nickname	<input type="text" value="NetUART"/>			
IP Setting				
IP Address	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="2"/>	<input type="text" value="1"/>
Subnet Mask	<input type="text" value="255"/>	<input type="text" value="255"/>	<input type="text" value="255"/>	<input type="text" value="0"/>
Gateway	<input type="text" value="192"/>	<input type="text" value="168"/>	<input type="text" value="2"/>	<input type="text" value="1"/>
IP Configure	<input checked="" type="radio"/> Static <input type="radio"/> DHCP			
Password Setting				
Username	<input type="text" value="admin"/>	max:15		
Password	<input type="password" value="*****"/>	max:15		
Confirm	<input type="password" value="*****"/>			
<input type="button" value="Update"/>				
Load Default Setting to EEPROM	<input type="button" value="Load"/>			

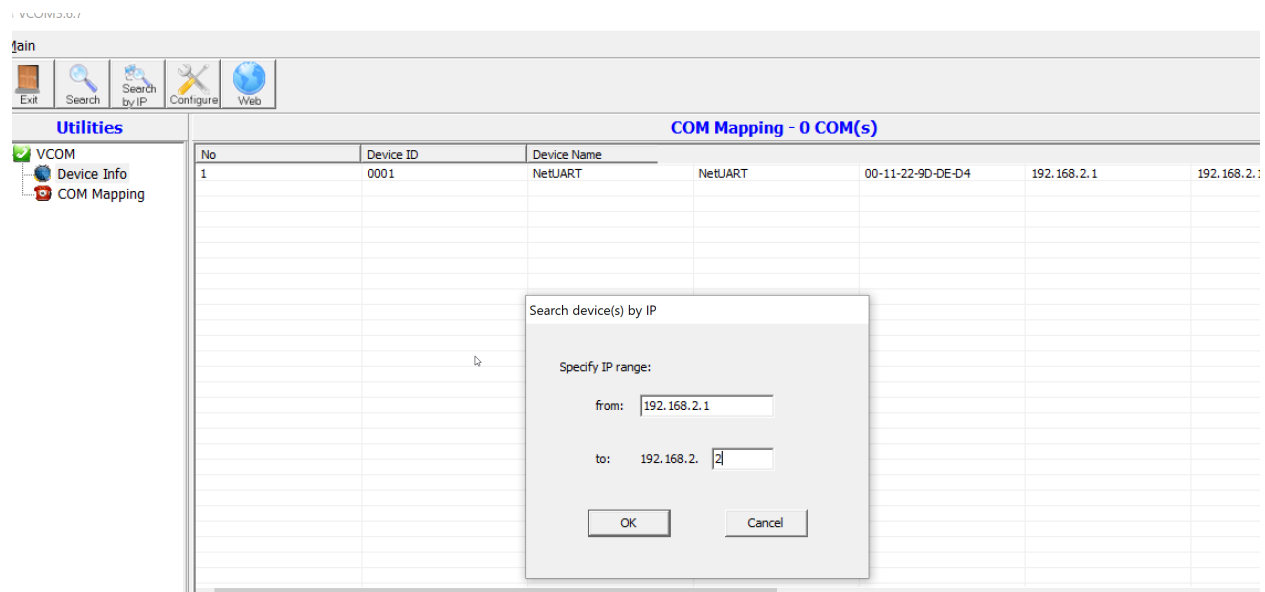
- On the UART Control screen, you will need to change the mode to RS485 and the baud rate to 115200. This is the default setting needed to connect to the front port.

[Administrator Setting](#)
[TCP Mode](#)
[UDP Mode](#)
[UART](#)
[Reset Device](#)

UART Control

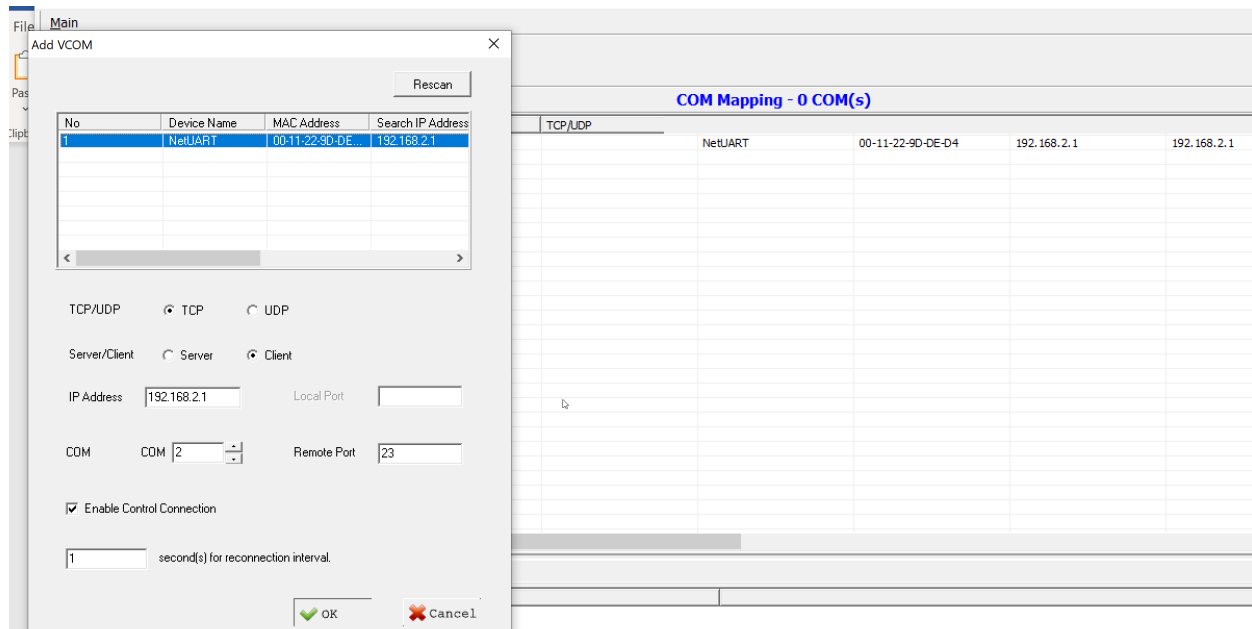
Item	Setting
Mode	RS485 ▼
Baudrate	115200 ▼
Character Bits	8 ▼
Parity Type	none ▼
Stop Bit	1 ▼
Hardware Flow Control	none ▼
Delimiter	<input type="checkbox"/> Character 1:00 <input type="checkbox"/> Character 2:FF <input type="checkbox"/> Silent time:5 (1~255)*10ms <input type="checkbox"/> Drop Character <input checked="" type="checkbox"/> Multi-Packet
<input type="button" value="Update"/>	

- You now need to load the VCOM software on you Computer. You will want to go under the driver's folder and select the ATC-1000&1000M folder. Open the Win XP,7,8,8.1,10 folder. Click on the vcomsetup to install the software.
- Open the VCOM software from the ICON on your computer. Click on the Device Info and then the search for IP. (See Screen Below). In the from field enter the IP 192.168.2.1 and in the to you will need to enter 192.168.2.2 so it has a range to look for the device. Then click ok.

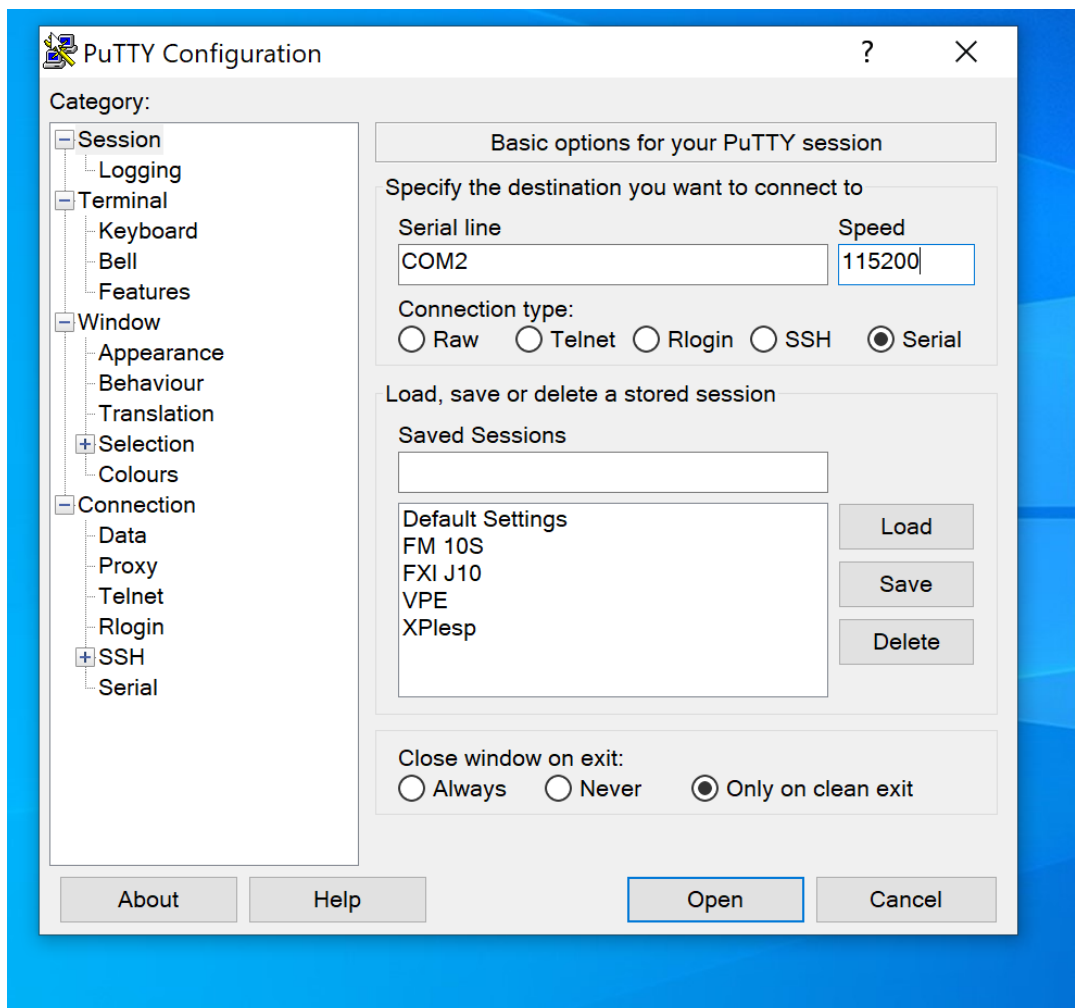


- Select the Com Mapping icon and it will bring up the screen below. Highlight the device that is listed. It will then fill in the IP and port number for you. It will bring up a default Com for your

computer. You can use it or change it to a free com port on your computer. Click ok and you will not have that com port associated with that IP address.



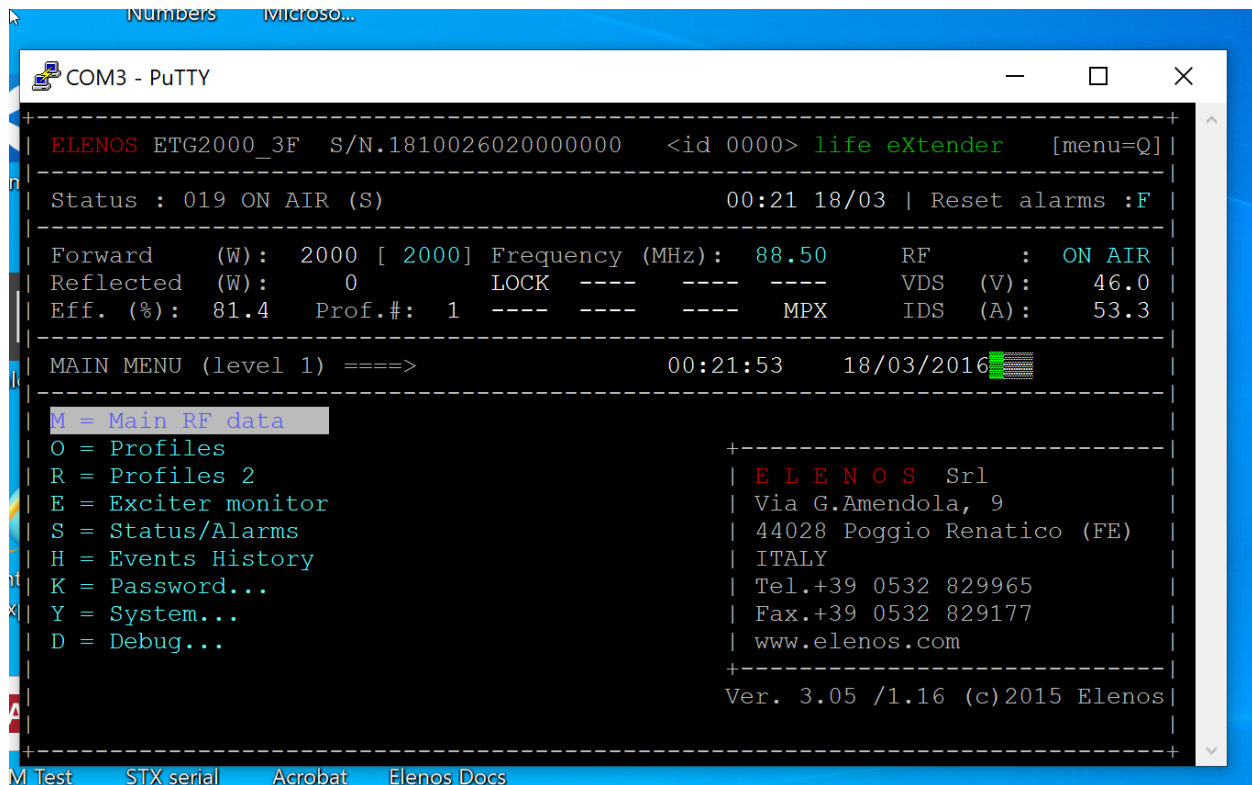
9. You will now need to connect the ATC-1000 to the front Db 9 port on the front of the Elenos Transmitter with a **Null Modem Cable**. Make sure you also have the ethernet cable plugged into it.
10. From the front of the Elenos unit, you will need to go into the menu. Under Menu System, select Communication Port Set. There on the front port setting, set the front comm port to 485 and the communication speed to 115K. Switch the unit to Remote with the Key on the front.
11. Open your terminal emulation software. If you do not have any, you can download putty from the internet. With putty, you will select connection type Serial, Speed, 115200 and Serial line what ever serial port you setup in the VCOM software. (See putty screen below). Then select open.



12. You will now see a blank terminal screen.



13. You will need to type 21i00 and the main screen will appear.



```
+-----+
| ELENOS ETG2000_3F S/N.1810026020000000 <id 0000> life eXtender [menu=Q] |
+-----+
| Status : 019 ON AIR (S)                                00:21 18/03 | Reset alarms :F |
+-----+
| Forward (W): 2000 [ 2000] Frequency (MHz): 88.50 RF : ON AIR |
| Reflected (W): 0 LOCK ---- ---- VDS (V): 46.0 |
| Eff. (%): 81.4 Prof.#: 1 ---- ---- MPX IDS (A): 53.3 |
+-----+
| MAIN MENU (level 1) =====>                                00:21:53 18/03/2016 |
+-----+
| M = Main RF data |
| O = Profiles |
| R = Profiles 2 |
| E = Exciter monitor |
| S = Status/Alarms |
| H = Events History |
| K = Password... |
| Y = System... |
| D = Debug... |
+-----+
| E L E N O S Srl |
| Via G.Amendola, 9 |
| 44028 Poggio Renatico (FE) |
| ITALY |
| Tel.+39 0532 829965 |
| Fax.+39 0532 829177 |
| www.elenos.com |
+-----+
| Ver. 3.05 /1.16 (c)2015 Elenos |
+-----+
```

Please refer to the Technical Bulletin 127-1-ITA for complete front terminal operation instructions on the Elenos Transmitter.

General instructions are you can arrow up and down with the arrow keys on your keyboard. Any item that is highlighted blue can be selected by highlighting it and selecting enter. From there you can use the arrow keys to toggle through your choices.

Example: From the main screen, you can arrow up to the RF field where is shows On Air or Off Air. You can highlight and then toggle the transmitter on or off. Then hit enter to make the change take effect.

Once setup, you can change most parameters in the transmitter, turn it on and off, view and reset alarms, change power etc.

Below are screenshots of the different screens available.

Alarm Page

[illegible]

Exciter Page

```
COM2 - PuTTY
```

```
+-----+  
| ELENOS ETG500_1P S/N.1906048270000000 <id 0000> life eXtender [menu=Q] |  
+-----+  
| Status : 004 STOP 21:11 13/02 | Reset alarms : F |  
+-----+  
| O(kHz)   15      30      45      60      75      90     105 |  
| Mpx---[  0.0 ]-----+-----+-----+-----+-----+ |  
|> |  
+-----+  
| O(kHz)    5.0     10.0     15.0     20.0     25.0     30.0 |  
| Aux---[  0.0 ]-----+-----+-----+-----+-----+ |  
|> |  
+-----+  
| Tx Frequency(MHz): 98.00 |  
+-----+  
| Inp. level (dB):       0.0 | Mode           :Ext.MPX | SW Ver:   3.67 | |
|                   |         |             | BB brd mod.: 0 |  
|                   |         |             | P11      : LOCK |  
| Aux1(%): 100.0 Aux2(%):100.0 |  
+-----+
```

Audio Trip Page

```
COM2 - PuTTY
-----
ELENOS ETG500_1P S/N.19060482700000000 <id 0000> life eXtender [menu=Q]
-----
Status : 004 STOP                               21:20 13/02 | Reset alarms :F
-----
Forward (W): 0 [ 500] Frequency (MHz): 98.00 RF : STBY
Reflected (W): 0 LOCK ---- VDS (V): 0.0
Eff. (%): 0.0 Prof.#: 1 ---- MPX IDS (A): 0.0
-----

19KHz Level: 10.00 %
19KHz Phase: 0.0 deg.
Limiter(Clipper): 150.0 KHz
-----
MODULATION ALARM SET ==> | Base Band mod: 0
Modulation Alarm DISABLE | Firmware : 3.67
(TC/TS slave connector) +-----
-----
No mod. level (dB): -25.0 Time (s): 600
Over mod. level (dB): 7.1 Time (s): 600
-----
```

Life Extender Page

```
COM2 - PuTTY
-----
ELENOS ETG500_1P S/N.19060482700000000 <id 0000> life eXtender [menu=Q]
-----
Status : 004 STOP                               21:25 13/02 | Reset alarms :F
-----
Forward (W): 0 [ 500] Frequency (MHz): 98.00 RF : STBY
Reflected (W): 0 LOCK ---- VDS (V): 0.0
Eff. (%): 0.0 Prof.#: 1 ---- MPX IDS (A): 0.0
-----
LIFE EXTENDER ACTIVATION / DEACTIVATION ==>
-----
SerialNumber : 190604827000000000
Unlock Code : 742C
Deactivation Code : 
-----
LIFE EXTENDER Status : ACTIVE
Examined (Days) 6 Run Time (Hours) 12
Examined (Days)in Optimal Conditions 6
Examined (Days)in Heavy Conditions 0
-----
```


Clock Power Page

```
COM2 - PuTTY
-----
ELENOS ETG500_1P S/N.1906048270000000 <id 0000> life eXtender [menu=Q]
-----
Status : 004 STOP                               21:19 13/02 | Reset alarms :F
-----
CLOCK POWER SET ==>
-----
Target power mode fixed for all the 24 hours:  TRUE
Fixed target power                               (W):  500
-----
copy over next day          : FALSE
reset all at factory default : FALSE
-----
Target power on the 24 hours of Thursday (4 of 7)
T3  # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
T2  # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
T1  # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
T0  00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23
    Hours
Target 3:  500 = 100% of fixed target power
Target 2:  375 = 75% of fixed target power
Target 1:  250 = 50% of fixed target power
Target 0:  125 = 25% of fixed target power
-----
```

Main System Page

```
COM2 - PuTTY
-----
ELENOS ETG500_1P S/N.1906048270000000 <id 0000> life eXtender [menu=Q]
-----
Status : 004 STOP                               21:17 13/02 | Reset alarms :F
-----
Forward   (W):  0 [ 500] Frequency (MHz): 98.00      RF      :  STBY
Reflected (W):  0      LOCK  ----  ----  ----      VDS (V):  0.0
Eff. (%):  0.0   Prof.#:  1  ----  ----  ----      MPX    IDS (A):  0.0
-----
SYSTEM SETTINGS ==>
-----
Temperature Unit      : CELSIUS   Min Temp Sensor Number : 1
Show Display          : ALWAYS    PLL reference (10MHz)   : INT.
Min Level Fwr Pwr Fault (W): 25   PwrOscillationCheck     : FALSE
                                      Fwd Pwr Cal.              (%): 100
                                      SWR Foldback Enable      : FALSE
Base band board code  : 0         IPA Bias Treshold           (V): 4.48
Target PWR UPS (W)    : 260       Refl. Pwr Tresh. nom.    (10%): TRUE
Analog PSU model      : 2         Refl. Pwr Tresh. Level    (W): 60
                                      PAbias                  (V): 5.45
-----
Actual date           : 13/02/2020 04 21:17:19
New date              : 13/02/2020 04 21:17:03 UPDATE
-----
```

System Screen Page

```
COM2 - PuTTY
-----+-----
| ELENOS ETG500_1P S/N.1906048270000000 <id 0000> life eXtender [menu=Q] |
|-----+-----|
| Status : 004 STOP                                     21:16 13/02 | Reset alarms :F |
|-----+-----|
| Forward (W): 0 [ 500] Frequency (MHz): 98.00 RF : STBY |
| Reflected (W): 0 LOCK ---- VDS (V): 0.0 |
| Eff. (%): 0.0 Prof.#: 1 ---- MPX IDS (A): 0.0 |
|-----+-----|
| SYSTEM MENU (level 2) ==> 21:16:19 13/02/2020 |
|-----+-----|
| X = System settings |
| U = Comm. settings |
| J = Audio trim & alrm |
| C = Clock power set |
| P = SMS Phone set. |
| F = User Warning |
| V = En. 0-31 Alrm SMS |
| B = En.32-63 Alrm SMS |
| L = Life eXtender |
|-----+-----|
| E L E N O S Srl |
| Via G.Amendola, 9 |
| 44028 Poggio Renatico (FE) |
| ITALY |
| Tel.+39 0532 829965 |
| Fax.+39 0532 829177 |
| www.eLENOS.com |
|-----+-----|
| Ver. 2.90 /1.13 (c)2011 Elenos |
|-----+-----|
```

Comm Page

```
COM2 - PuTTY
-----+-----
| ELENOS ETG500_1P S/N.1906048270000000 <id 0000> life eXtender [menu=Q] |
|-----+-----|
| Status : 004 STOP                                     21:18 13/02 | Reset alarms :F |
|-----+-----|
| Forward (W): 0 [ 500] Frequency (MHz): 98.00 RF : STBY |
| Reflected (W): 0 LOCK ---- VDS (V): 0.0 |
| Eff. (%): 0.0 Prof.#: 1 ---- MPX IDS (A): 0.0 |
|-----+-----|
| COMM. SETTINGS ==> |
|-----+-----|
| Front 485 Id (n.): 0 Front 485 Speed : 115200 |
| TcTs 485 Id (n.): 0 TcTs 485 Speed : 57600 |
| PSU 485 Speed : 9600 |
| Station Id : 0 |
| Pager Id : 0 |
|-----+-----|
```

Event History Page

```
COM2 - PuTTY
-----
ELENOS ETG500_1P S/N.1906048270000000 <id 0000> life eXtender [menu=Q]
-----
ALARMS HISTORY ==>  ([-] prev.pag. [+] next pag. [arrow up/down] next/prev.)
184) 004 STOP 13/02 21:06:13
183) 019 ON AIR 13/02 21:05:55
182) 004 STOP 13/02 21:03:01
181) 019 ON AIR 13/02 21:02:50
180) 025 WORKING MODE COMBINED 13/02 20:57:45
179) 020 POWER UP 13/02 20:57:28
178) 018 EXTERNAL INTERLOCK 13/02 20:57:28
177) 021 POWER DOWN 30/01 16:57:57
176) 004 STOP 30/01 16:57:33
175) 019 ON AIR 30/01 16:56:54
174) 004 STOP 30/01 16:55:53
173) 019 ON AIR 30/01 16:49:02
172) 004 STOP 30/01 16:49:01
171) 019 ON AIR 30/01 16:48:57
170) 004 STOP 30/01 16:48:54
169) 019 ON AIR 30/01 16:48:32
168) 004 STOP 30/01 16:46:58
167) 019 ON AIR 30/01 16:44:17
166) 004 STOP 30/01 16:43:19 >>
```

Alarm 1 – 31 Status Page

```
COM2 - PuTTY
-----
ELENOS ETG500_1P S/N.1906048270000000 <id 0000> life eXtender [menu=Q]
-----
Status : 004 STOP 21:24 13/02 | Reset alarms :F
-----
Bit Status Bit Status
| / Enable | / Enable
0 F 000 CORRECT WORKING 16 F 016 PSU OVER TEMPERATURE
1 F 001 SYSTEM RESET 17 F 017 PSU COMM TIMEOUT
2 F 002 EEPROM CHKSUM ERROR 18 F 018 EXTERNAL INTERLOCK
3 F 003 BLOCKED 19 F 019 ON AIR
4 T 004 STOP 20 F 020 POWER UP
5 F 005 -3dB CARRIER 21 F 021 POWER DOWN
6 F 006 HIGH REF PWR 22 F 022 PSU THERMAL DERATING/FA
7 F 007 MIN 12V 23 F 023 PSU LOW POWER
8 F 008 RF AMP. FAULT 24 F 024 PSU RF OFF
9 F 009 RF AMP. FAULT DERATING 25 T 025 WORKING MODE COMBINED
10 F 010 RF THERMAL DERATING 26 F 026 SWR FOLDBACK
11 F 011 RF OVER TEMPERATURE 27 F 027 UNLOCK
12 F 012 PSU FAULT 28 F 028 EXCITER COMM ERROR
13 F 013 PSU CURRENT DERATING 29 F 029 NO AUDIO
14 F 014 PSU OVER CURRENT 30 F 030 OVER 2/3 CARRIER
15 F 015 PSU THERMAL DERATING 31 F
```

Alarm 32 – 63 Status Page

```
COM2 - PuTTY
+-----+
| ELENOS ETG500_1P S/N.1906048270000000 <id 0000> life eXtender [menu=Q] |
+-----+
| Status : 004 STOP 21:25 13/02 | Reset alarms :F |
+-----+
| Bit  Status                               Bit  Status                               |
| | / Enable                               | / Enable                               |
| 32 F F 032 OVER MODULATION                48 F T 048 AUDIO OK                    |
| 33 F F 033 TEMPERATURE SENSOR ERRO        49 F F 049 DRAIN VOLTAGE TOO LOW       |
| 34 F F 034 TEMPERATURE SENSOR ERRO        50 F F 050 OVER FRW PWR ERROR           |
| 35 F F 035 PWR FORWARD OSCILATION         51 F F 051 PSU VOLTAGE DERATING          |
| 36 F F 036 THREE BLOCK OUT                52 F F 052 PSU NET OVER VOLTAGE          |
| 37 F F 037 USER ENV TEMP OUT LIMIT        53 F F 053 EXT REF MISSING              |
| 38 F F 038 USER RF TEMP OUT LIMIT         54 F F 054 DRAIN VOLTAGE CONTROL E       |
| 39 F F 039 USER PSU TEMP OUT LIMIT        55 F F                               |
| 40 F F 040 USER RF CURRENT OUT LIM        56 F F                               |
| 41 F F 041 USER PSU CURRENT OUT LI        57 F F                               |
| 42 F F 042 USER FRW PWR OUT LIMIT         58 F F                               |
| 43 F F 043 USER RFL PWR OUT LIMIT         59 F F                               |
| 44 F F 044 OUT PWR NOT VERIFIED           60 F F                               |
| 45 F F 045 UPS ACTIVE                     61 F F                               |
| 46 F F 046 SHUNT COMM TIMEOUT             62 F F                               |
| 47 F F 047 WARNING TEMPERATURE SEN       63 F F                               |
+-----+
```