



## **CYBER MAX MICRO+ (v3.0)**

**Compact Stereo FM transmitter with RDS and remote control via PC**



*Finally a small compact FM transmitter that fully supports RDS right from the LCD module. You can set it all there, from station name, RT, country code, PI and RT to TA, PT, PTY and others. You can also control all these RDS parameters, frequency of operation and output power via PC (either USB or serial cable). CyberMax Micro + ( v3.0) is available in three power levels from LPFM to 1W of power and comes with a handy telescopic antenna.*

### **Specifications:**

- Three available power levels, LPFM (10mW), 500mW or 1W
- Stereo and mono mode selectable via LCD
- Pre-emphasis selectable internally
- Stereo separation > 40dB
- Supports optional 15W booster and 25W booster
- Output power adjustable via LCD
- Audio chain includes MPX filter and limiter
- Power requirements: 12-15V DC stabilized, 300mA min, center is positive
- Optional mains power supply: universal 110-240V / 15V 1A stabilized, low noise
- 2x10 LED VU meter (either works as VU meter or light show)
- 2x8 character LCD with extensive menu system for setting RDS and FM transmitter parameters
- RS232 or USB connector for easy connection to PC (optional item)
- Size: 165mm (W) x 155mm (D)
- Weight: 0.6 Kg

### **Why is CYBER MAX MICRO+ so great?**

It's a high-performance mini transmitter with incredible stereo sound and RDS capability, suitable for a wide array of applications. With a suitable antenna it easily covers up to a few miles and can even operate from the car battery.

**THANK YOU FOR PURCHASING THE CYBER MAX MICRO+!**

We hope you will enjoy it as much as we do and remember to tell your friends about it. Please feel free to leave your comments at our website or post your experience in our forum.

From all of us we wish you happy broadcasting!

PCS Electronics team  
[www.pcs-electronics.com](http://www.pcs-electronics.com)

**BEFORE YOU START...**

Let us clear up some basic things you need to know before we move on. You will find some very useful tips, a forum and tips on antennas and hooking things together at <http://www.pcs-electronics.com> so it's generally a good place to check before putting your unit on the air.

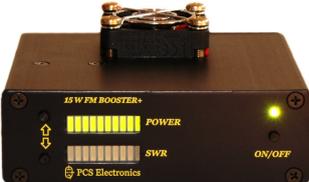
**WHAT'S INCLUDED IN THE PACKAGE:**

Here's a list of all items included with the transmitter:

- CYBER MAX MICRO+ transmitter, assembled and tested
- Handy telescopic antenna with F connector adapter
- CD rom with instructions, Windows software for controlling the transmitter and other free materials

**OTHER OPTIONAL ITEMS FOR YOUR TRANSMITTER:**

- Mains power supply (order separately)
- RDS daughter board for RDS operation (order separately)
- RS 232 or UBS IO board for connectivity with a PC (order separately)
- 15W or 25W booster/amplifier for more range (order separately, you also need mains power supply for this item)
- GP antenna with coaxial cable for more range (order separately)
- See our website for other antenna options, coaxial cable and more

GP antenna with coaxial cable	
RS232 + USB IO board	
RDS daughter board	
Mains Power Supply	
15 or 25W booster	

## FRONT AND BACK VIEW:



Front panel, note menu keys and LCD on the left, audio level LED bar displays further to the right, than power ON/OFF button at the far right. You can also see telescopic antenna (collapsed) at the back of the unit.



Back panel, note RS232 and USB on the left, audio input (3.5mm stereo socket) further to the right, than power supply input and finally antenna output (F connector).

### SETUP AND USE: FIRST POWER UP

Follow these steps to power unit up for the first time:

- Install the telescopic antenna or other antenna type you may have. Make sure your antenna is the proper type for broadcasting and has minimal SWR at frequency of operation. See our website for suitable antenna type.
- Fully extend the telescopic antenna to ensure proper SWR and avoid damage to final transistor. Make sure antenna stays connected during operation.
- Insert audio cable (3.5mm stereo jack) into audio input and insert the other end into your MP3 player, mixer, PC or other audio source.
- Connect the mains power supply and plug it into mains socket.
- Push the ON/OFF button on the front panel so the units powers on.
- Set frequency, output power and other parameters according to your requirements.

### SETUP AND USE: LCD MODULE

LCD control system with 3 keys is pretty simple and self-explanatory, but let's make a quick summary. The three keys are up, down and menu. The bottom red key is menu. Please read the reminder of this document for description of various available menu options.

### LCD MODULE: ADJUSTING FREQUENCY

Simply press UP or DOWN key to adjust frequency. Hold the key for a few seconds and adjustment steps will automatically become larger.



### LCD MODULE: ADJUSTING POWER

Press the MENU key (red) to enter the menu system. Now press UP or DOWN key to select POWER menu item. You are now inside POWER menu item and can use UP/DOWN keys to set output power. Output power is represented with a line of bars. Now press MENU key again to exit menu system.



### LCD MODULE: SELECTING STEREO OR MONO OPERATION

Press the MENU key (red) to enter the menu system. Now press MENU key again to show the next menu item (STEREO). Press UP or DOWN key to select STEREO menu item. You are now inside STEREO menu item and can use UP/DOWN keys to toggle between MONO and STEREO. Now press MENU key again to exit menu system.



### LCD MODULE: SELECTING FUNCTION OF LED BARGRAPHS

Press the MENU key (red) to enter the menu system. Now press MENU key twice to show the next menu item (LEDs). Press UP or DOWN key to select LEDS menu item. You are now inside LEDS menu item and can use UP/DOWN keys to toggle between VU METER and LIGHT SHOW. Now press MENU key again to exit menu system. As the name suggests VU meter responds to the level of audio on the input and LIGHT SHOW plays a dazzling light show for the audience



### LCD MODULE: ADJUSTING CONTRAST

Press the MENU key (red) to enter the menu system. Now press MENU key 3 times to show the menu item CONTRAST. Press UP or DOWN key to select CONTRAST menu item. You are now inside CONTRAST menu item and can use UP/DOWN keys to toggle between levels of contrast for the LCD display. Now press MENU key again to exit menu system.

### LCD MODULE: SELECTING RDS MODE

Press the MENU key (red) to enter the menu system. Now press MENU key 4 times to show the menu item **RDS MODE**. Press UP or DOWN key to select **RDS MODE** menu item. You are now inside **RDS MODE** menu item and can use UP/DOWN keys to toggle between “VIA LCD” and “VIA PC”. Now press MENU key again to exit menu system.

**What does the “VIA LCD” selection do?** If you select this option, the RDS encoder module inside basically says: " Step away from my controls, PC, my old buddy LCD module is taking care of everything." You can still use PC to set RDS parameters, but LCD module will overwrite them at each power-up or if you change a parameter via LCD.

**What does the “VIA PC” selection do?** If you select this option, the RDS encoder module inside basically says: " Step away from my controls, LCD module , my old buddy PC is taking care of everything." LCD module can't write to RDS module in this mode. You can change the settings, but they won't have effect on RDS module.



### LCD MODULE: TURNING RDS ON OR OFF

Press the MENU key (red) to enter the menu system. Now press MENU key until RDS PWR shows up. Press UP or DOWN key to select RDS PWR menu item. You are now inside RDS PWR menu item and can use UP/DOWN keys to toggle between RDS ON and RDS OFF. Now press MENU key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.



### LCD MODULE: SETTING TA ON OR OFF (RDS PARAMETERS)

Press the MENU key (red) to enter the menu system. Now press MENU key until RDS (TA) shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to toggle between TA ON and TA OFF. Now press MENU key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

**What are TA and TP and what do they do?** TA and TP are standard RDS features. Traffic Announcement and Traffic Program can often be set to pay special attention to this flag and e.g. stop the tape/pause the CD or retune to receive a Traffic bulletin. The TP flag is used to allow the user to find only those stations that regularly broadcast traffic bulletins whereas the TA flag is used to stop the tape or raise the volume during a traffic bulletin.



### **LCD MODULE: SETTING TP ON OR OFF (RDS PARAMETERS)**

Press the MENU key (red) to enter the menu system. Now press MENU key until RDS (TP) shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to toggle between TP ON and TP OFF. Now press MENU key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

### **What are TA and TP and what do they do?**

TA and TP are standard RDS features. Traffic Announcement and Traffic Program can often be set to pay special attention to this flag and e.g. stop the tape/pause the CD or retune to receive a Traffic bulletin. The TP flag is used to allow the user to find only those stations that regularly broadcast traffic bulletins whereas the TA flag is used to stop the tape or raise the volume during a traffic bulletin.

### **LCD MODULE: SETTING PTY**

Press the MENU key (red) to enter the menu system. Now press MENU key until RDS (PTY) shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to toggle between program types. Now press MENU key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

### **What is PTY?**

Programme Type: This coding of up to 31 pre-defined programme types – e.g. (in Europe): PTY1 News, PTY6 Drama, PTY11 Rock music, – allows users to find similar programming by genre. PTY31 seems to be reserved for emergency announcements in the event of natural disasters or other major calamities.



### **LCD MODULE: SETTING COUNTRY**

Press the MENU key (red) to enter the menu system. Now press MENU key until COUNTRY shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to toggle between countries. Now press MENU key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

### **What does this setting do?**

RDS has a couple parameters available to allow for identification of a country. Rather than let users tackle this complicated system we organized this into a simple selection. Simply select country and ECC and other parameters will be set automatically for you.



### **LCD MODULE: SETTING COVERAGE AREA**

Press the MENU key (red) to enter the menu system. Now press MENU key until COVERAGE shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to toggle between regional codes. Now press MENU key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

#### **What does this setting do?**

Unless you know this setting just leave at default.

### **LCD MODULE: SETTING PI**

Press the MENU key (red) to enter the menu system. Now press MENU key until **RDS(PI)** shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to toggle between PI codes. Now press MENU key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

#### **What does PI setting do?**

Programme Identification is the unique code that identifies the station. Every station receives a specific code with a country prefix. In the US, PI is determined by applying a formula to the station's call sign. In EU it is typically assigned to each station.

### **LCD MODULE: SETTING MS**

Press the MENU key (red) to enter the menu system. Now press MENU key until **RDS(MS)** shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to toggle between PI codes. Now press MENU key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

#### **What does MS setting do?**

Music/speech switch is a two-state signal to provide information on whether music or speech is the primary broadcast. The signal would permit receivers to be equipped with two separate volume controls, one for music and one for speech, so that the listener could adjust the balance between them to suit his individual listening habits.

### **LCD MODULE: SETTING PS (PROGRAM SERVICE NAME)**

Press the MENU key (red) to enter the menu system. Now press MENU key until **RDS(PS)** shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to change current character of the PS string. PS string has 8 characters. As you press UP/DOWN current character changes. Press Menu key to move to the next characters. Once you've adjusted the last character press Menu key again to exit menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

#### **What does PS setting do?**

This is the label of the program service consisting of not more than eight alphanumeric characters which is displayed by RDS receivers in order to inform the listener what program service is being broadcast by the station to which the receiver is tuned.



### **LCD MODULE: SETTING RT (RADIO TEXT)**

Press the MENU key (red) to enter the menu system. Now press MENU key until **RDS(RT)** shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to change current character of the RT string. RT string has 64 characters so you will have to go through 8 screens. As you press UP/DOWN current character changes. Press Menu key to move to the next characters. Once you've adjusted the last character press Menu key again to move to the next screen and eventually exit the menu system. Only works in “VIA LCD” RDS control mode, has no effect otherwise.

### What does RT setting do?

This allows for transmitting 64-character long text messages. Radio receiver can display this text, but it usually requires from the operator to press the RT button (it does not display by itself, typically).



### LCD MODULE: CHECKING CURRENT FIRMWARE VERSION

Press the MENU key (red) to enter the menu system. Now press MENU key until **FIRMWARE** shows up. Press UP or DOWN key to select this menu item. You are now inside this menu item and can use UP/DOWN keys to display current firmware version. Press Menu key to exit the menu system. Only works in "VIA LCD" RDS control mode, has no effect otherwise.

### What is firmware?

It is the version of software used to run the LCD control module and the transmitter.

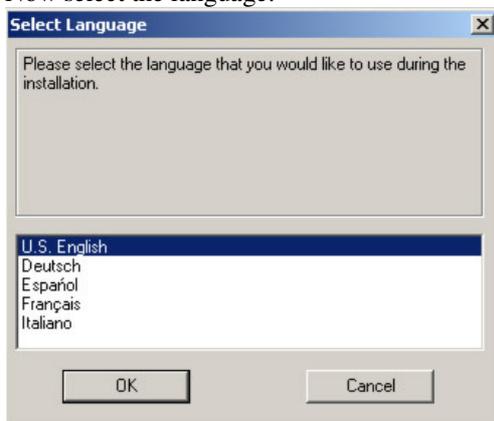


## INSTALLING WINDOWS CONTROL PROGRAM

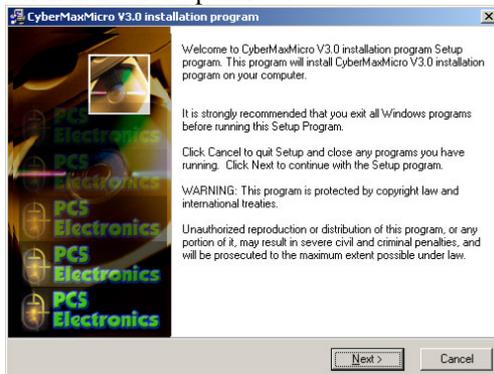
Run the Setup\_CyberMaxMicro\_en.exe file that you either downloaded off our website, or located on installation CD. Wait for the popup welcome screen to appear:



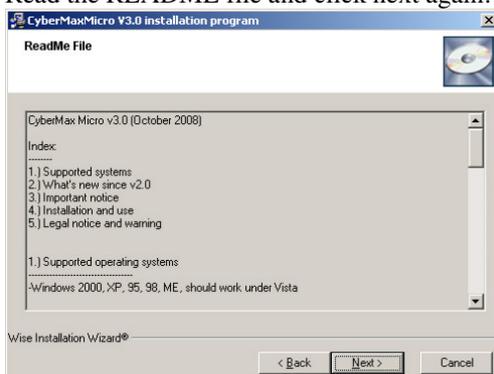
Now select the language:



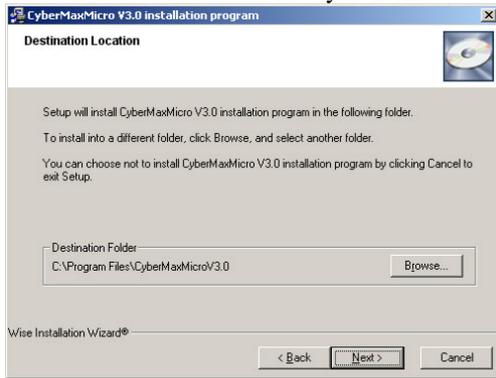
Click next on the panel below:



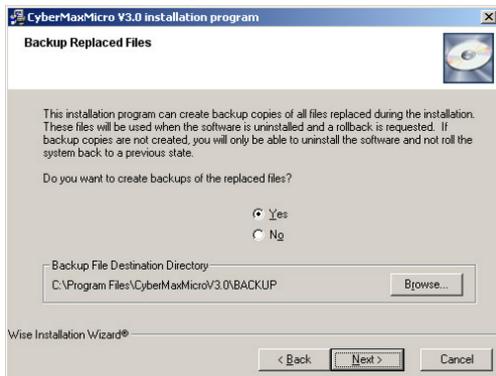
Read the README file and click next again:



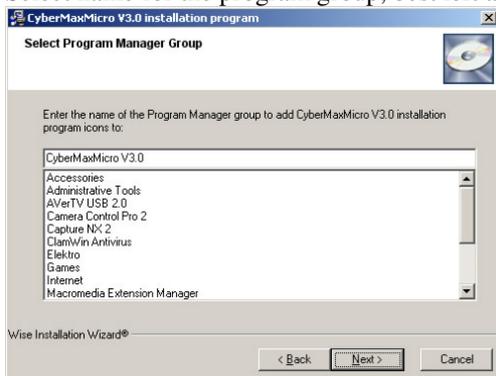
Select the installation directory and click next again:



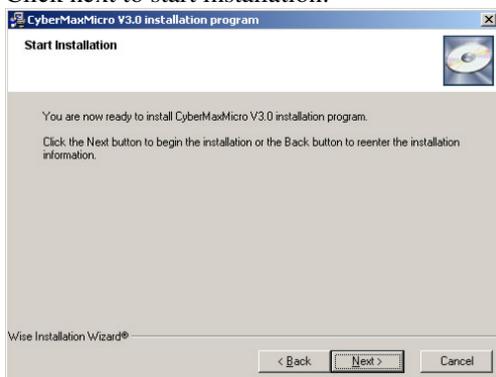
Leave this at YES and click next here:



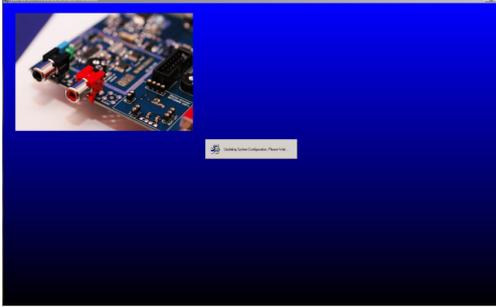
Select name for the program group, best left as it is:



Click next to start installation:



Wait for the installation to complete and click Finish when done:

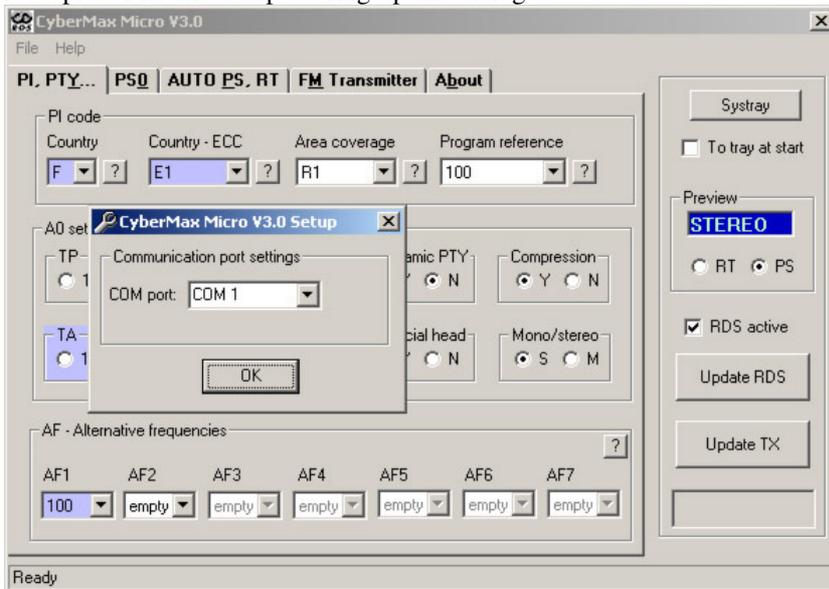


### CONFIGURING WINDOWS CONTROL PROGRAM

The only setup required is minimal. Start the CyberMaxMicroV30 program, the icon should now be on the desktop.



Now press File and Setup to bring-up this dialog:



If you're going to use regular RS232 cable to control your FM transmitter you'll usually select COM 1 here. On the other hand, if you're going to be using USB cable to control your FM transmitter you'll usually select COM 5 here. Next page explains the installation and setup process for USB control cable.

### INSTALLING USB DRIVER (only needed, if you are using USB IO board)

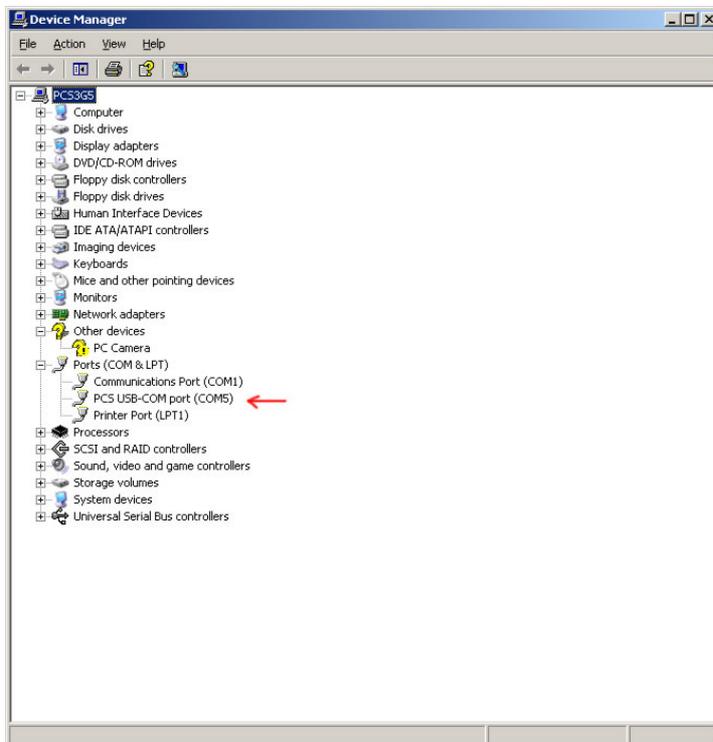
Unzip the archive\_usb2comport\_driver.zip file that you either downloaded off our website or located on installation CD. Now run the IO BOARD USB-COM port.exe file. Wait for the following screen to appear:



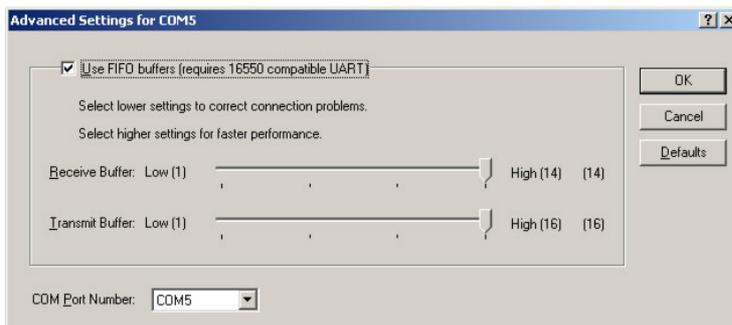
Now select the installation directory (best left alone at default location). Click Install and wait for the installation to finish.

### CONFIGURING USB DRIVER

Go to Start > Settings > Control Panel > System > Hardware tab > Device Manager (This can vary depending on your Windows version). You should have something like this on your screen at this point:

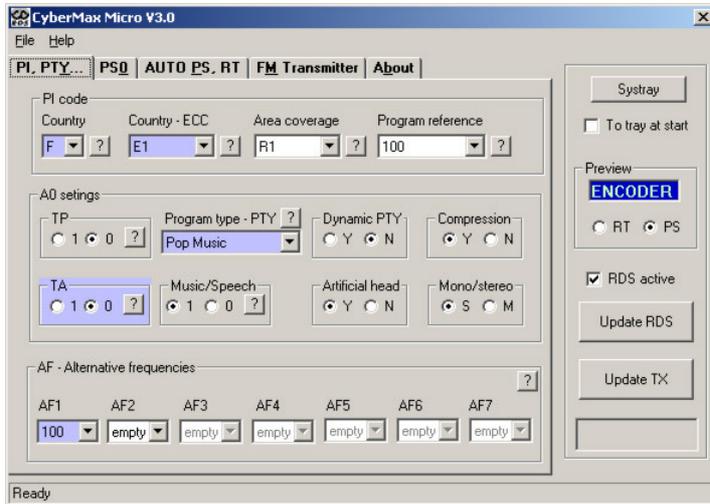


Take note of the COM port number here, you will need it later to configure the COM port inside CyberMaxMicro 3.0+ windows control program. If you wish to change this port right click on the PCS USB-COM port and select Properties. Now select the Port settings tab and click Advanced. Note you can set the COM port number as you wish:

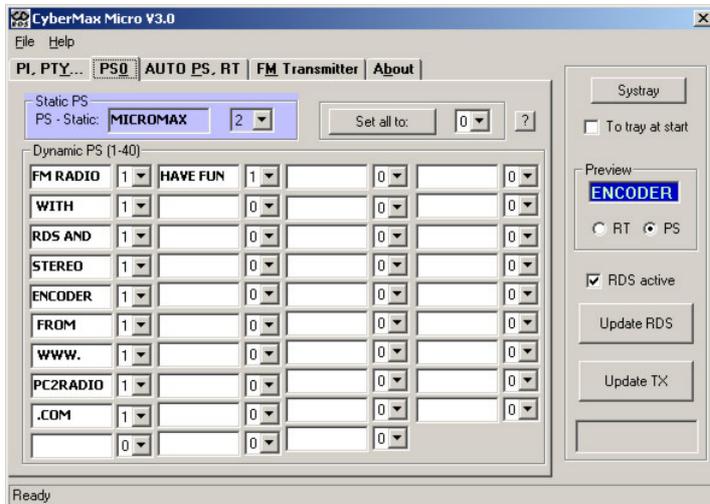


## USING WINDOWS CONTROL PROGRAM

See the screen capture of the panel below. You can set main RDS parameters here. Click the question mark next to the parameter for explanation of its functionality. Many of these are also described above in the LCD menu system section.

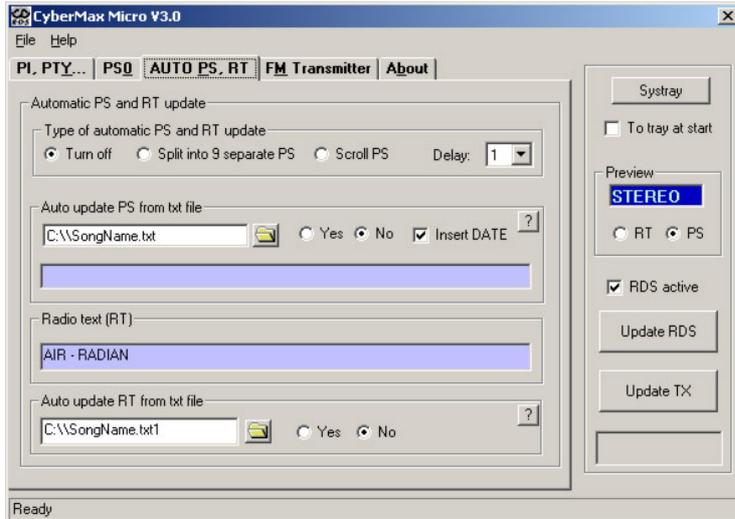


Note three big buttons on the far right. The one at the top moves control program into windows tray area. You can bring it back by clicking on the icon there. The other big button below is Update RDS. This button sends RDS parameters to the transmitter. Note RDS Active checkmark above this button, it turns RDS on or off. The third button (Update TX) sets FM transmitter according to the settings made under “FM transmitter tab”. Also note preview window. This shows either RT and PS as shown on your radio receiver.

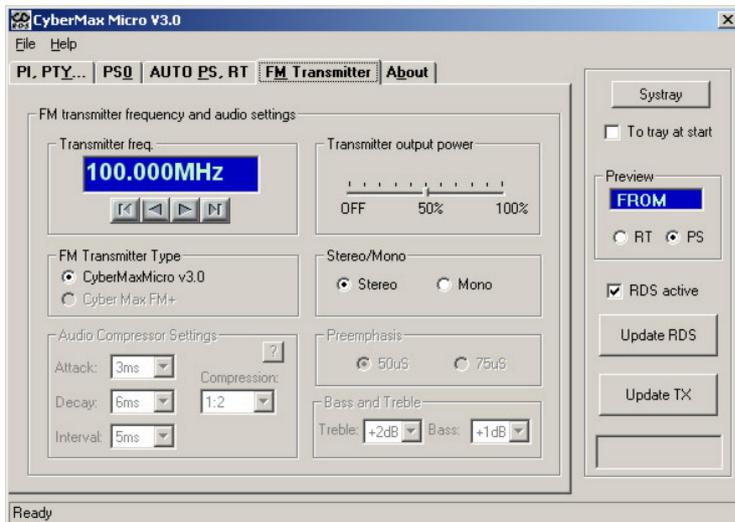


The really nifty feature of this dynamic RDS encoder is the dynamic PS. This is the most interesting feature for 99% of customers out there so we will dedicate a bit more time to it. RDS standard provides for a 8-character PS string which is used to identify radio station and is displayed by RDS-enabled radio receivers. Some countries prohibit changing this text dynamically, but others don't. Whatever your decision may be, RDSMAX supports either static or dynamic PS. It is best to check with the local authorities before setting up the RDS encoder. The mechanism for handling dynamic (or static) PS text is best demonstrated by the following example:

Imagine a train traveling in a round trip involving 41 train stations. The train starts on station 00 (PS00) and goes through stations 01, 02.... until it passes through station 40 and finally returns to station 00. Every time a train stops at the station it sends the message back to the headquarters (PS text shown on RDS receiver). The amount of time the train stays at the station (delay – PD00 to PD40) varies and can be from 0 (train does not stop) to 9. I hope this little analogy has illustrated the process. You have 41 8-character strings (PS00 to PS40) which are displayed one after the other until the entire loop repeats itself. You can define how long each of these strings is displayed, the parameter which defines this is PD (PD00 to PD40) and you can set it with a dropdown next to the PS field.



Another hugely popular feature is the auto PS and RT update. Basically you can take the song title from Winamp or another program via text file. Winamp must be setup to write its song info into a text file, this is done with TitleSpy plugin. Most other playback programs can easily be setup to write song info into a text file. You can use this info to update PS or RT text. PS text is limited to 8 characters so the entire song title can either be scrolled or split into 8-character blocks. You can set the speed of scrolling on the panel above. You can also insert DATE at the end of the scrolling block. A really popular and nifty feature indeed. This feature requires your PC to be connected to the RDS encoder at all times during music playback (or at least every time the song changes so the encoder can update the info).



Here is how you can set the transmitter parameters. Note that you need to press Update TX to update the settings. This is all pretty much self explanatory.

**INSTALLING IO BOARD INTO THE CASE (as after-sales upgrade by customer)**

If you originally purchased the CyberMaxMicro+ without the RS232/USB input/output board and later regret not getting the very convenient PC control functionality you still can buy this upgrade option later and install it yourself. The process requires a screwdriver, soldering iron and a few minutes of your time.

Start by installing the board inside the enclosure (see photo below). Next wire two leads as shown on the photo. The one on the right goes to any ground terminal on the pcimax board. Note we chose the one close to IO board, but you can use any ground point on the board. The most obvious ground point is the antenna connector, it is easy to solder there. If you're unsure whether a point is grounded or not, use ohm meter and any ground point will read zero ohms to the antenna connector.

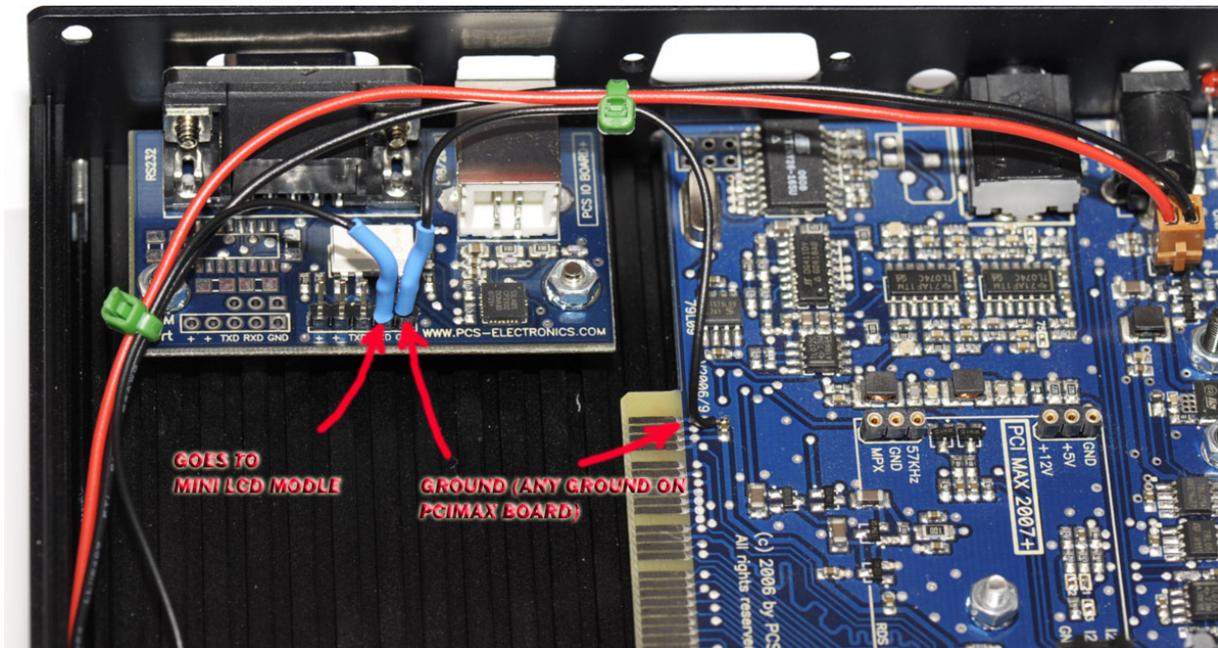
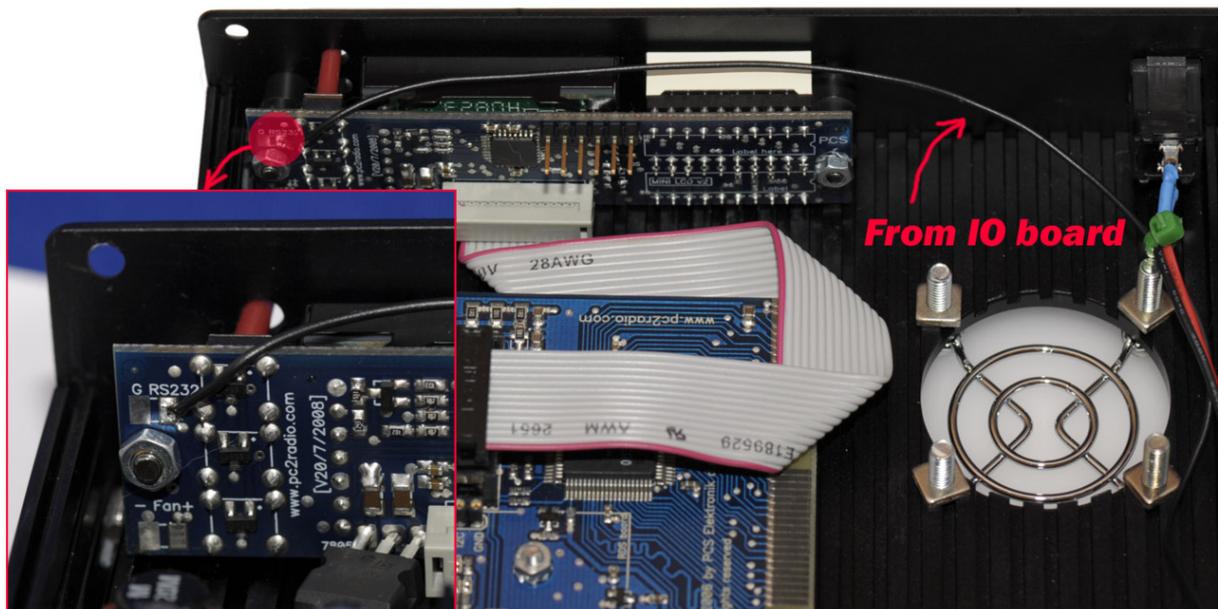


Photo below shows where the other lead goes. Strip the wire and apply some solder to the stripped end. Now apply some solder to the point on LCD module. You're now ready to solder the lead to the LCD module. Heat it up with soldering iron and move the wire into the molten solder. Now carefully wait for the connection to cool off. Replace cover and you're done.

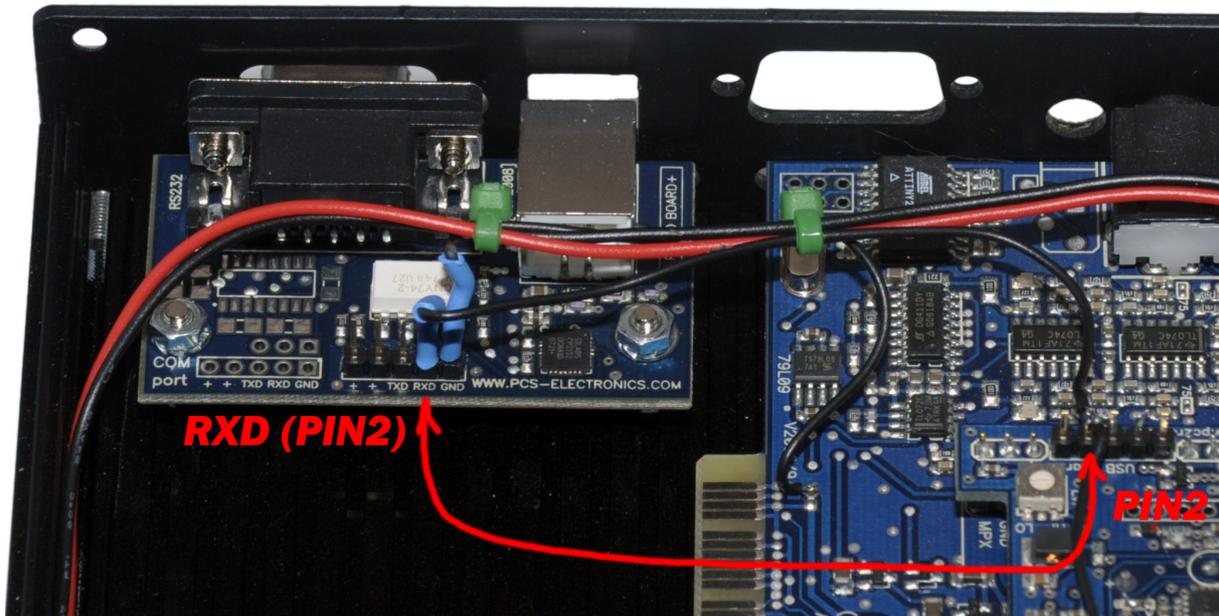


### **INSTALLING RDS DAUGHTER BOARD INTO THE CASE (as after-sales upgrade by customer)**

If you originally purchased the CyberMaxMicro+ without the RDS daughter board and later regret not getting the very cool RDS option, you still can buy this upgrade option later and install it yourself. The process requires a screwdriver and soldering iron (only if you're going to use IO board as well) and a few minutes of your time.

Remove the cover and look for the pci max board. It has a special dedicated connector for RDS daughter board. Insert the daughter board into the connector carefully making sure that pins don't get bent. If you don't have IO board, just place cover and fasten screws and you're done.

If you have IO board as well, you need to connect a wire to one of the RDS daughter pins. See photo below; the lead that used to go from pin 2 of the IO board directly to the LCD display unit now makes a stop at the RDS daughter board first. Simply strip some insulation off the wire around the convenient point in the middle and solder that point to pin2 on the RDS daughter board (see photo below). Again wet the wire with solder first and do the same with the pin, than heat the pin and connect them.



We also recommend that you trim the pins on RDS daughter board slightly. They are long and almost touch the cover possibly creating a problem.

### **SETTING RDS CARRIER LEVEL CORRECTLY**

Open the cover, connect antenna and everything else as usual. Prepare a radio receiver that supports RDS. Turn on the transmitter under test and decrease RDS carrier trimmer to the point where radio receiver does not detect it anymore. Now increase it back to the point where RDS sign shows on radio again. Go slightly above that point and you're set to go. Replace cover.

## TROUBLESHOOTING

We hope you'll never get to this step. We all know bad things happen. But do not despair! Our forum and support are ready to answer your questions and help with problems. See the helpful troubleshooting table for a start.

### TROUBLESHOOTING TABLE

PROBLEM DESCRIPTION	POSSIBLE SOLUTIONS
Can't control unit with the PC	<ol style="list-style-type: none"><li>1. Look under File&gt; Setup. Is the com port selected the one you are using?</li><li>2. If you're using USB browse through this document, you will find instructions for configuring USB.</li><li>3. You can also open the unit and make sure IO board is wired correctly (photos can be found inside this document).</li></ol>
RDS indicator on the radio turns on and off	Verify adjustment of RDS carrier level. It probably needs a slight increase.
Low output power	What kind of power supply are you using? It is probably not 15V that we usually supply with these units.
Distorted sound with lots of HUM	<ol style="list-style-type: none"><li>1. You are probably using low-quality mains power supply that isn't even stabilized. Use our or good quality mains power supply.</li><li>2. Move antenna away from your audio source.</li></ol>
My range is limited, what can I do to increase it?	<ol style="list-style-type: none"><li>1. Good range comes with a good antenna. The GP on our website is pretty good, but there are even better directional models with substantial gain. Small telescopic antenna gives limited range compared to those types.</li><li>2. Consider getting 15W or 25W booster, this will dramatically increase your range.</li></ol>
Audio too quiet	<ol style="list-style-type: none"><li>1. Increase level on your audio source a little bit.</li><li>2. Get sound processing software, such as SAM3 or Winamp plugin such as Rocksteady</li></ol>

## **WRAP UP**

This document may seem a bit overwhelming, but the process is quite straight-forward and easy. Even beginners with limited skills should be able to put it all together in no time. Please let us know if you encounter any problems, we are always there for you and will help you make your flight safe and fun.



**Do you think you can handle it ??**

## IMPORTANT NOTICE!

**Please remember to turn off the transmitter/amplifier when not in use! This goes especially for high powered transmitters. Make sure you turn it off until you start the program on the desktop and turn it off after you stop using the program!** Remember that anything you broadcast through the transmitter can be heard by anyone tuning in to that frequency. Although it is unlikely certain weather conditions may allow the signal to go further than your immediate listening area so please don't broadcast anything you don't mind anyone else hearing.

## LEGAL INFO

It may be illegal to operate this device in your county. Please consult local authorities before using our products! PCS Elektronik d.o.o. is not responsible for any damage to your PC arising from use of this product and will not be held responsible for any violation of local laws pertaining to the use of this product. It is entirely your responsibility that you make sure you operate in accordance with local laws and/or regulations.

## LIMITATION OF LIABILITY

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**REVISIONS - ERRATA**

V1.1 (Nov 2<sup>nd</sup>,2008) – Spell checking errors and replaced the photo describing wiring the RDS daughter board  
V1.0 (Nov 2<sup>nd</sup>,2008) – Release version

Please report any errors you see in this manual, you will be helping us and many other users out there. Thank you!