

# فصل دهم

نرم افزار VFDSOft – مختص درایو های دلتا

## VFDSOft , نرم افزار ارتباط با درایو از طریق کامپیوتر :

با استفاده از نرم افزار می توان از طریق کامپیوتر به اینورتر های دلتا متصل شد و پارامترهای درایو را خواند و ذخیره کرد و مقادیر پارامترها را تغییر داد.

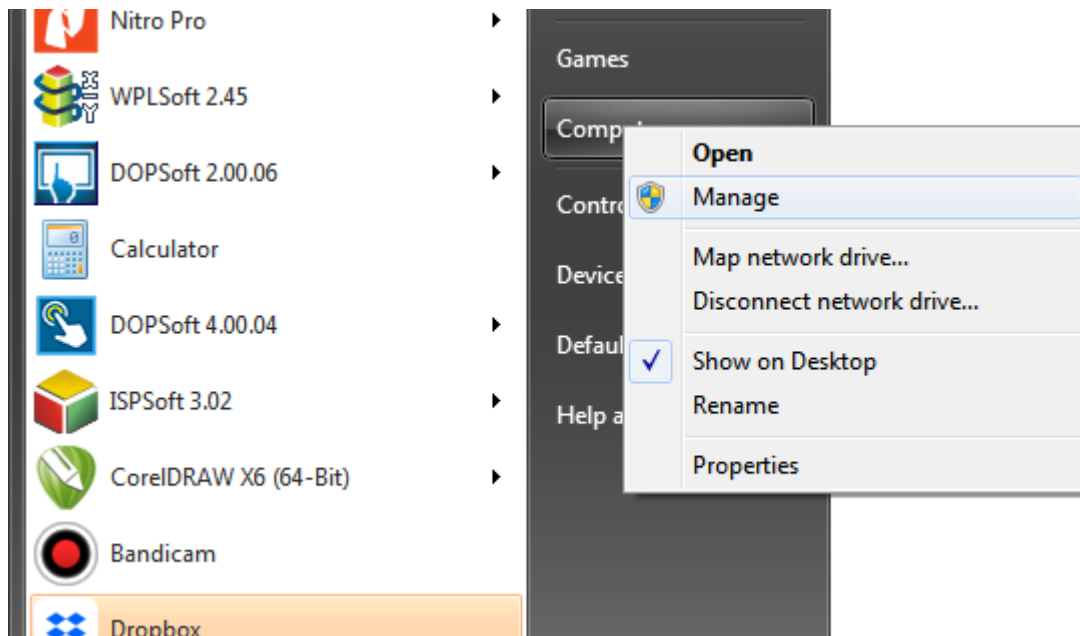
لینک دانلود آخرین ورژن نرم افزار VFDSOft :

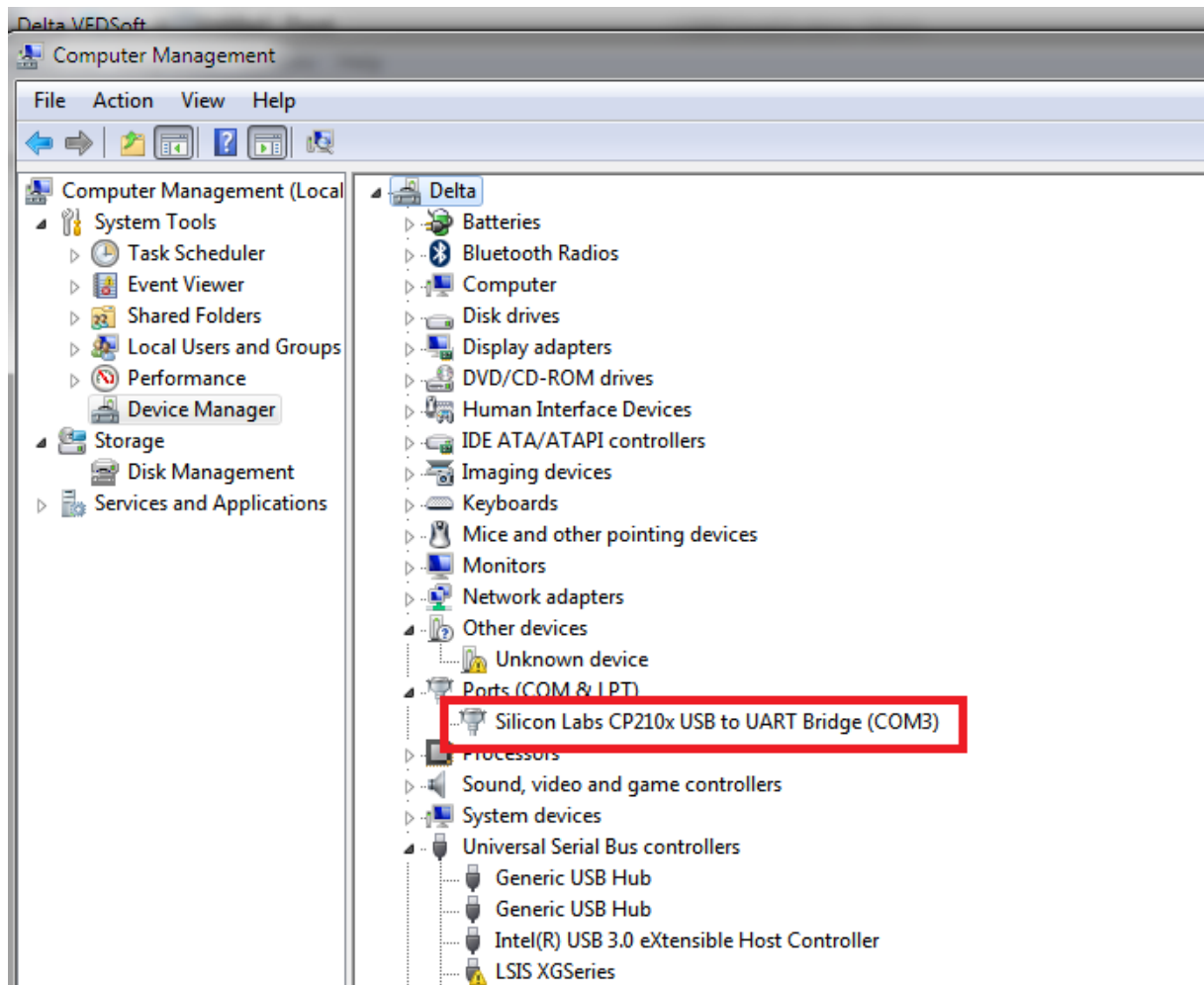
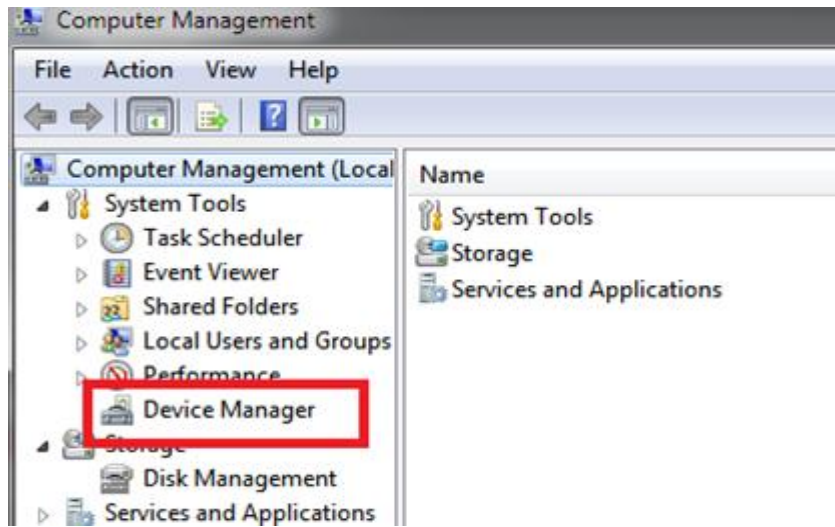
<http://www.deltaww.com/filecenter/Products/download/06/060101/Software/DELTA IA-MDS VFDSOft-V1-56 SW 20161212.zip>

در ادامه با چگونگی برقراری ارتباط با درایو و مختصری از معرفی قابلیت های آن می پردازیم :

ابتدا درایو را از طریق پورت RJ45 و یا ترمینال های RS485 ( SG+ , SG- ) و یک مبدل RS485 به USB به کامپیوتر خود متصل کنید و مطابق شکل های زیر از برقراری ارتباط بین درایو و کامپیوتر اطمینان حاصل کنید :

1. در Device manager کامپیوتر خود ابتدا com port مربوطه را شناسایی کنید :





2. سپس com port شناخته شده در کامپیوتر خود را در قسمت com port شکل زیر انتخاب کنید :

The screenshot displays the Delta VFDSoft interface with the 'Communication Setup' dialog box open. The dialog box contains the following elements:

- Step 1:** 'Please make sure the communication cable is already connected to PC.' An illustration shows an 'RS485 converter' with an 'RJ11 or RJ45 JACK' and an 'RJ11 or RJ45 PLUG' connected to it.
- Step 2:** 'Please select the Com Port and Protocol.' The 'Com Port' dropdown is set to '3'. The 'Baudrate and Protocol' section includes dropdowns for 'ASCII', '9600', '7', 'N', and '2'. There are 'Basic' and 'Advanced' tabs, and a 'Test' button.
- Step 3:** 'Accept the setting and go on-line.' An 'OK' button is visible.

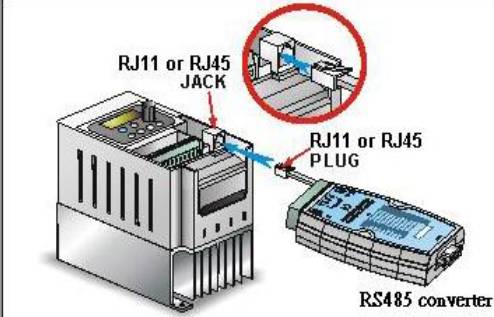
At the bottom left, the 'History Message' window shows the text: '01/15/2018 11:24:41 > Setup Com Port and Protocol'.

Delta VFDSOft

File Drive Diagnostic Options Help

Off-Line Open Save Exit Quick Setup Parameter Advance

**1.** Please make sure the communication cable is already connected to PC.



RJ11 or RJ45 JACK

RJ11 or RJ45 PLUG

RS485 converter

**2.** Please select the Com Port and Protocol.

Com Port	Baudrate and Protocol					
3	ASCII	9600	7	N	2	

Basic Advanced

Test

Test Connection

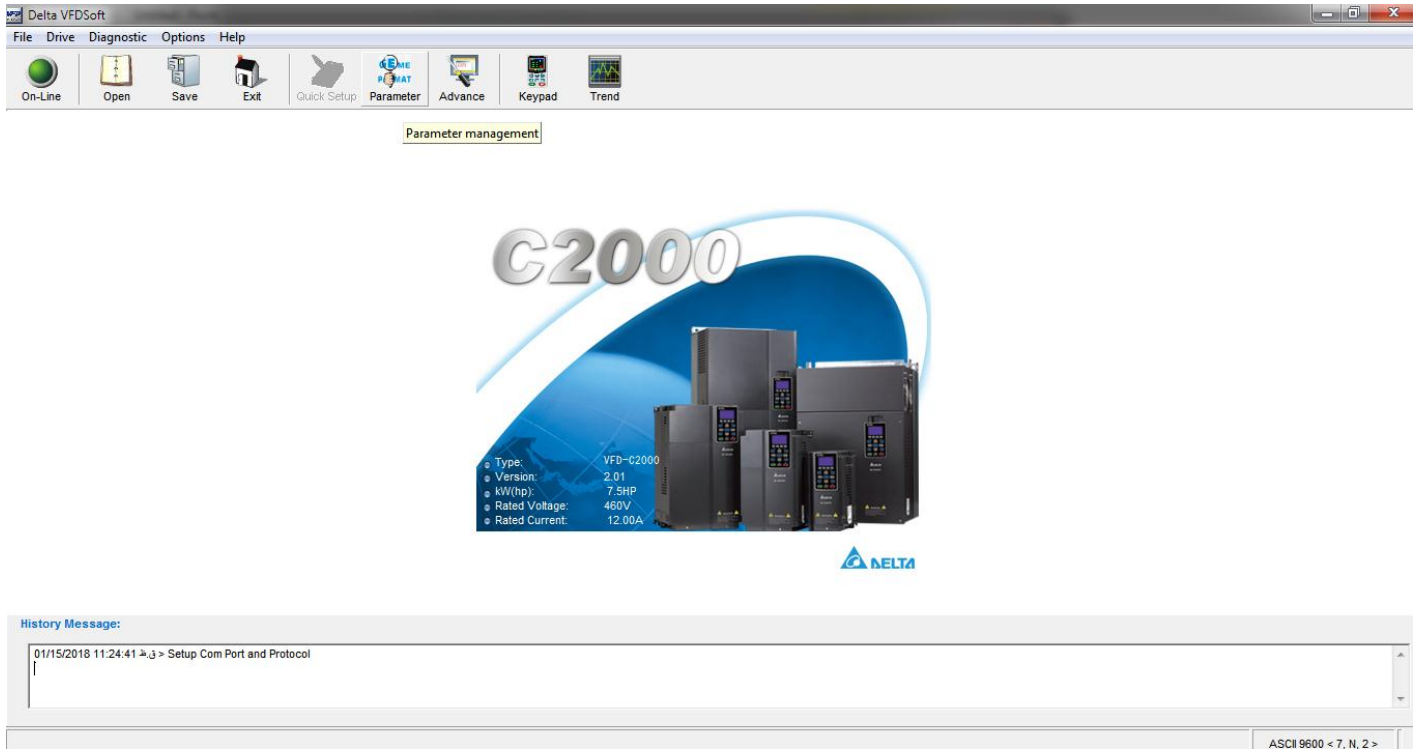
OK

**3.** Accept the setting and go on-line

History Message:

01/15/2018 11:24:41 > Setup Com Port and Protocol

3. در قسمت parameter management این نرم افزار می توانید کلیه پارامترها را از اینورتر خواند و تغییر داد .



Parameter Management

File Drive Table EDS

Save Exit Read File **Read Drive** Write Select Write All Compare Update Print

Drive [ VFD-C2000 ]

- All Parameters
  - 0 - SYSTEM PARAMETER
  - 1 - BASIC PARAMETER
- File

**Table from Drive**

Type: **VFD-C2000** Rated Current: **12.00A**  
 Version: **2.01** Rated Voltage: **460V**  
 kW(hp): **7.5HP**

<input type="checkbox"/>	Pr. No	MODBUS	Description	Unit	Data	Default	Min	Max	Attribute
	*****	*****	0 - SYSTEM PARAMETER	*****	*****	*****	*****	*****	*****
<input type="checkbox"/>	00-00	0000H	Identity Code		13	0	0	65535	Read-Only
<input type="checkbox"/>	00-01	0001H	Rated Current	Amps	12.00	12.00	0.00	655.35	Read-Only
<input checked="" type="checkbox"/>	00-02	0002H	Parameter Reset		0	0	0	10	Writable
<input type="checkbox"/>	00-03	0003H	Start up Display		0	0	0	3	Writable
<input checked="" type="checkbox"/>	00-04	0004H	User Display		5	3	0	48	Writable
<input type="checkbox"/>	00-05	0005H	H page scale		1.00	1.00	0.00	160.00	Writable
<input type="checkbox"/>	00-06	0006H	Firmware Version		2.01	2.01	0.00	655.35	Read-Only
<input type="checkbox"/>	00-07	0007H	Password Decoder		0	0	0	65535	Writable
<input type="checkbox"/>	00-08	0008H	Password Input		0	0	0	65535	Writable
<input type="checkbox"/>	00-09	0009H	Reserved		0000H	0000H	0000H	FFFFH	Read-Only
<input type="checkbox"/>	00-10	000AH	Control Method		0	0	0	3	Writable
<input type="checkbox"/>	00-11	000BH	Velocity Mode		0	0	0	7	Writable
<input type="checkbox"/>	00-12	000CH	P2Position Mode		0	0	0	1	Writable
<input type="checkbox"/>	00-13	000DH	Torque Mode		0	0	0	2	Writable
<input type="checkbox"/>	00-14	000EH	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/>	00-15	000FH	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/>	00-16	0010H	Duty Selection		0	0	0	1	Writable
<input type="checkbox"/>	00-17	0011H	Carry Frequency	kHz	8	8	2	15	Writable
<input type="checkbox"/>	00-18	0012H	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/>	00-19	0013H	PLC CMD Mask		0000H	0000H	0000H	FFFFH	Read-Only
<input type="checkbox"/>	00-20	0014H	Source of FREQ		0	0	0	8	Writable

Parameter Management

File Drive Table EDS

Save Exit Read File Read Drive Write Select Write All Compare Update Print

Drive [ VFD-C2000 ]  
 All Parameters  
 0 - SYSTEM PARAMETER  
 1 - BASIC PARAMETER  
 File

**Table from Drive**

Type: VFD-C2000    Rated Current: 12.00A  
 Version: 2.01        Rated Voltage: 460V  
                          kW(hp): 7.5HP

Double click here to modify parameter's value

<input type="checkbox"/>	Pr. No	MODBUS	Description	Unit	Data	Default	Min	Max	Attribute
<input type="checkbox"/>	*****	*****	0 - SYSTEM PARAMETER	*****	*****	*****	*****	*****	*****
<input type="checkbox"/>	00-00	0000H	Identity Code		13	0	0	65535	Read-Only
<input type="checkbox"/>	00-01	0001H	Rated Current	Amps	12.00	12.00	0.00	655.35	Read-Only
<input type="checkbox"/>	00-02	0002H	Parameter Reset		0	0	0	10	Writable
<input type="checkbox"/>	00-03	0003H	Start up Display		0	0	0	3	Writable
<input checked="" type="checkbox"/>	00-04	0004H	User Display		0	3	0	48	Writable
<input type="checkbox"/>	00-05	0005H	H page scale		1.00	1.00	0.00	160.00	Writable
<input type="checkbox"/>	00-06	0006H	Firmware Version		2.01	2.01	0.00	655.35	Read-Only
<input type="checkbox"/>	00-07	0007H	Password Decoder		0	0	0	65535	Writable
<input type="checkbox"/>	00-08	0008H	Password Input		0	0	0	65535	Writable
<input type="checkbox"/>	00-09	0009H	Reserved		0000H	0000H	0000H	FFFFH	Read-Only
<input type="checkbox"/>	00-10	000AH	Control Method		0	0	0	3	Writable
<input type="checkbox"/>	00-11	000BH	Velocity Mode		0	0	0	7	Writable
<input type="checkbox"/>	00-12	000CH	P2Position Mode		0	0	0	1	Writable
<input type="checkbox"/>	00-13	000DH	Torque Mode		0	0	0	2	Writable
<input type="checkbox"/>	00-14	000EH	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/>	00-15	000FH	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/>	00-16	0010H	Duty Selection		0	0	0	1	Writable
<input type="checkbox"/>	00-17	0011H	Carry Frequency	kHz	8	8	2	15	Writable
<input type="checkbox"/>	00-18	0012H	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/>	00-19	0013H	PLC CMD Mask		0000H	0000H	0000H	FFFFH	Read-Only
<input type="checkbox"/>	00-20	0014H	Source of FREQ		0	0	0	8	Writable



Parameter Management

File Drive Table EDS

Save Exit Read File Read Drive **Write Select** Write All Compare Update Print

Drive [ VFD-C2000 ]

- All Parameters
  - 0 - SYSTEM PARAMETER
  - 1 - BASIC PARAMETER
- File

**Table from Drive**

Type: VFD-C2000 Rated Current: 12.00A  
 Version: 2.01 Rated Voltage: 460V  
 kW(hp): 7.5HP

Pr. No	MODBUS	Description	Unit	Data	Default	Min	Max	Attribute
*****	*****	0 - SYSTEM PARAMETER	*****	*****	*****	*****	*****	*****
<input type="checkbox"/> 00-00	0000H	Identity Code		13	0	0	65535	Read-Only
<input type="checkbox"/> 00-01	0001H	Rated Current	Amps	12.00	12.00	0.00	655.35	Read-Only
<input checked="" type="checkbox"/> 00-02	0002H	Parameter Reset		0	0	0	10	Writable
<input type="checkbox"/> 00-03	0003H	Start up Display		0	0	0	3	Writable
<input checked="" type="checkbox"/> 00-04	0004H	User Display		0	3	0	48	Writable
<input type="checkbox"/> 00-05	0005H	H page scale		1.00	1.00	0.00	160.00	Writable
<input type="checkbox"/> 00-06	0006H	Firmware Version						
<input type="checkbox"/> 00-07	0007H	Password Decoder						
<input type="checkbox"/> 00-08	0008H	Password Input						
<input type="checkbox"/> 00-09	0009H	Reserved						
<input type="checkbox"/> 00-10	000AH	Control Method						
<input type="checkbox"/> 00-11	000BH	Velocity Mode						
<input type="checkbox"/> 00-12	000CH	P2Position Mode						
<input type="checkbox"/> 00-13	000DH	Torque Mode		0	0	0	2	Writable
<input type="checkbox"/> 00-14	000EH	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/> 00-15	000FH	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/> 00-16	0010H	Duty Selection		0	0	0	1	Writable
<input type="checkbox"/> 00-17	0011H	Carry Frequency	kHz	8	8	2	15	Writable
<input type="checkbox"/> 00-18	0012H	Reserved		0	0	0	65535	Read-Only
<input type="checkbox"/> 00-19	0013H	PLC CMD Mask		0000H	0000H	0000H	FFFFH	Read-Only

Input Value

00-04: User Display (0 ~ 48 )

Input Value

OK

5. از قابلیت های نرم افزار می توان رسم نمودار از فرکانس خروجی و .... را نام برد .



Trend - Record\*

File Trend Tools

Start Save Data Load Data Save PIC Clear All Fit All Zoom In Zoom Out Option Keypad Print Exit

**Drive Information**

Type: VFD-C2000  
 Version: 2.01  
 kW(hp): 7.5HP  
 Rated Voltage: 460V  
 Rated Current: 12.00A

**Status of Drive**

RUN  JOG  FWD  
 STOP  REV  
 Error Code: 0  
 No errors occurred

**Cursor**

11:34:58.71  
 X: 223

Name	Latest	Cursor	pdata	Unit	Gain	Max
<input checked="" type="checkbox"/> Frequency command F:	50.00	--	--	Hz	1	50.00
<input checked="" type="checkbox"/> Output Frequency H:	0.00	--	--	Hz	1	49.91
<input checked="" type="checkbox"/> Output Current A:	0.00	--	--	A	1	3.53
<input checked="" type="checkbox"/> DC-BUS Voltage U:	556.2	--	--	Vdc	1	556.8

RUN/STOP(Cmd)	RUN/STOP(Status)	FWD/REV(Cmd)	FWD/REV(Status)
<input checked="" type="checkbox"/> L	L	L	H