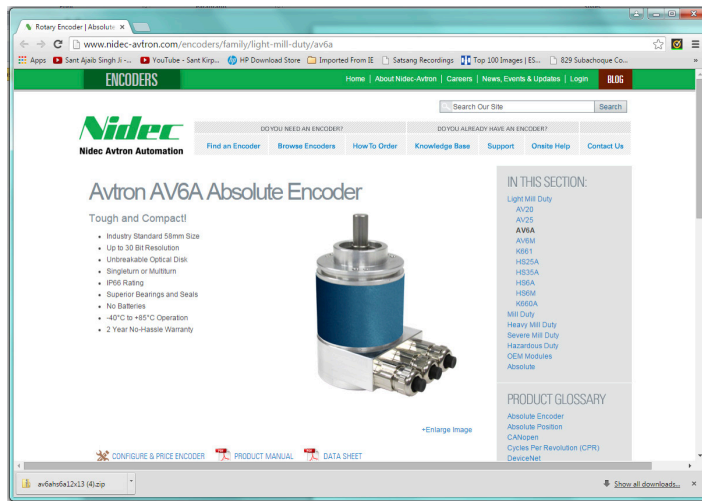


AV6A EtherNet/IP Installation Instructions

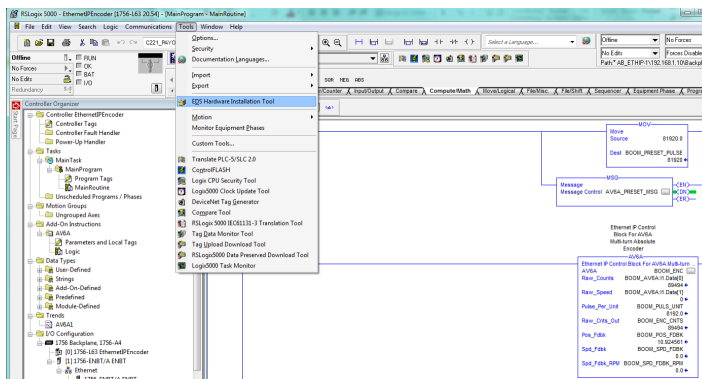


Install AV6A EDS File

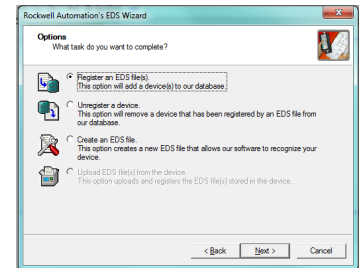
1. Make sure you are running Logix version 20 or later.
2. Download the EDS file for the AV6A Encoder
3. <http://www.nidec-avtron.com/encoders/family/light-mill-duty/av6a>
4. Click on "Documents" and then click on "AV6A HS6A 12 X 13 EDS file" or "AV6A HS6A 14 X16 EDS file"
5. The EDS file is a zip file and will need to be "extracted"
→ see lower left hand corner.



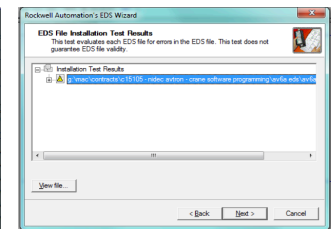
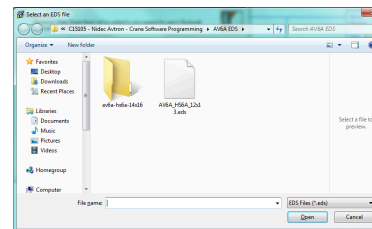
6. Make note which directory the zip file is "extracted".
7. In RSLogix or RSStudio, Register the EDS file.
8. In Logix or Studio - On the top menu select -> Tools -> EDS Hardware Installation Tool.



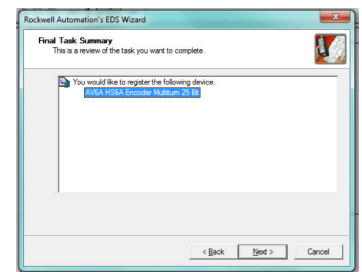
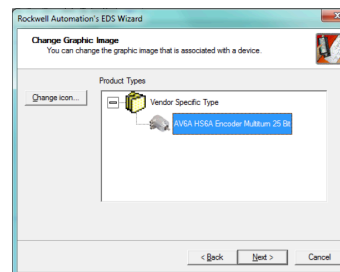
9. Click "Next" to begin EDS Register wizard. (below on left)
10. Click "Register an EDS File" (below on right)



11. Click "Browse" and find the EDS file that was extracted
Then Click "Next".(below on left)
12. Highlight the EDS and click "Next" (below on right)



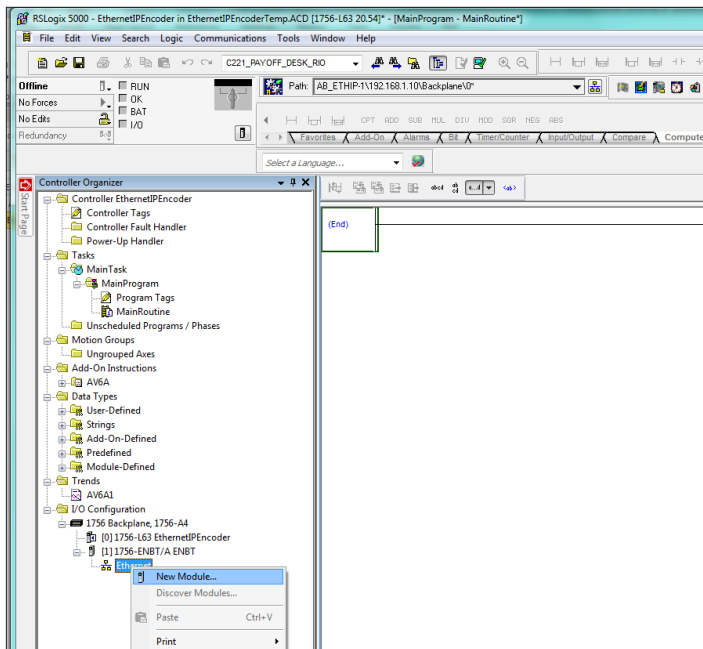
13. Highlight the Encoder and click "Next". (below on left)
14. Highlight the Encoder again and click "Next".
(below on right)



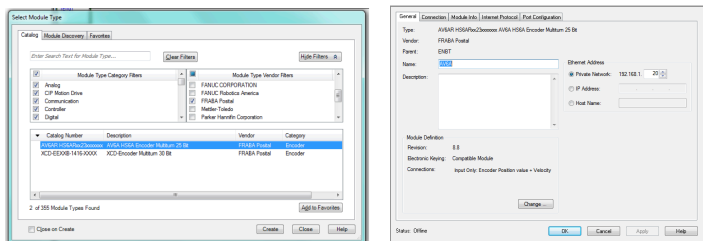
15. Click "Finish". The EDS is now ready to be inserted into the project.

Insert Encoder Into Project

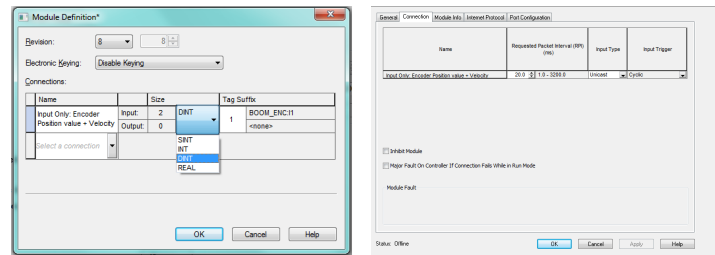
- Go to the I/O Configuration and insert a "New" encoder under the "Ethernet" network.



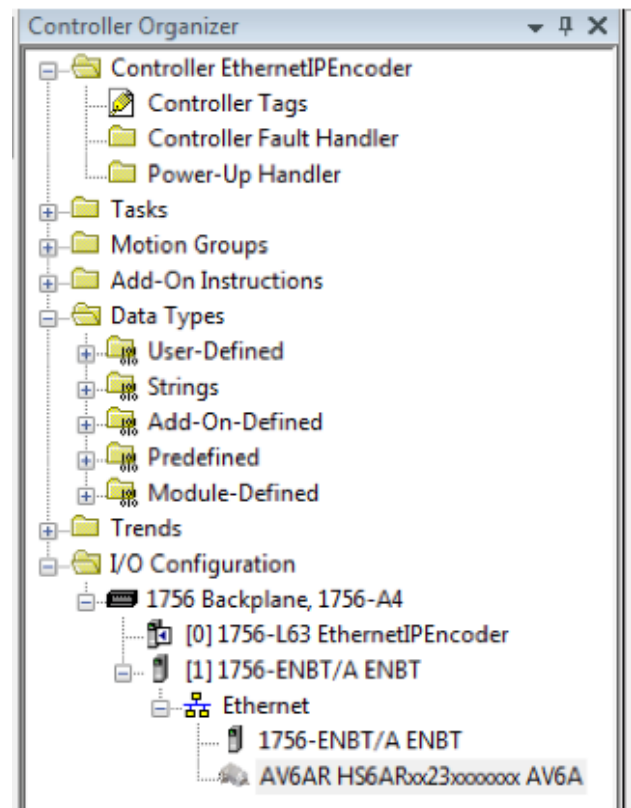
- Unclick on the "Module Type Vendor Filters" checkbox and Highlight the "FRABA" checkbox. Highlight the encoder and click "Create". (below on left)
- In the "General" tab, give the encoder a name and an IP address and then click "Change". (below on right)



- Select revision 8.8 – "Disable Keying" – "Encoder Position Value + Velocity" – DINT – Tag Suffix of 1. Then click "OK". (below on left)
- Go To The "Connection" tab and setup the encoder for the RPI update rate and the "Input Type" should be "Unicast". Then click "OK". (below on right)



- You should now see an Avtron encoder in the I/O tree.



- In the controller tags, you should also see your data inputs:

Name	Value	For	Alias	Style	Data Type	Description	Constant
- AV6A.C	{...}	{..					
- AV6A.C.Direction_Counting_Toggle	1			Decimal	BOOL	_0162:AV6ARHS6ARxx23xxxxxxxx_09139FE1:C:0	
- AV6A.C.Scaling_Function_Control	0			Decimal	BOOL		
+ AV6A.C.Measuring_Unit_Per_Span	8192			Decimal	DINT		
+ AV6A.C.Total_Measuring_Range_in_Measuring...	33554432			Decimal	DINT		
+ AV6A.C.Velocity_Format	7940			Decimal	INT		
- AV6A.I1	{...}	{..					
- AV6A.I1.ConnectionFaulted	0			Decimal	BOOL	_0162:AV6ARHS6ARxx23xxxxxxxx_96F814381:0	
- AV6A.I1.Data	{...}	{..		Decimal	DINT[2]		
+ AV6A.I1.Data[0]	242694			Decimal	DINT		
+ AV6A.I1.Data[1]	0			Decimal	DINT		

