How to Set IP Address on ENET-A429 (Windows)

The factory default IP address for Alta ENET devices is 192.168.0.128. You must set your computer to an IP address on the same subnet (192.168.0.x). Go to the Windows Control Panel, View network status and tasks. Click on "Local Area Connection".

Control Panel H	🖞 Local Area Connection Status	n and set up connections
Managa wireler	General	See full man
Manage wireles Change adapter Change advance settings	Connection	ble networks Internet Connect or disconnect Access type: Internet Connections: an Wireless Network Connection (altadt)
	Activity Sent — Received Packets: 555 0	Connections: ell Local Area Connection
	Properties Disable Diagnose	k up, ad hoc, or VPN connection; or set up a router or access point.
	Close	wired, dial-up, or VPN network connection.
See also	Choose homegroup and sharing	options

Click on "Properties", select "Internet Protocol Version 4", click "Properties".

Networking Sharing	
Connect using:	
Intel(R) 825791	M Gigabit Network Connection
	Configure
This connection uses	the following items:
Client for Micr	rosoft Networks
QoS Packet	Scheduler
🗹 🚚 File and Print	er Sharing for Microsoft Networks
Internet Proto	col Version 6 (TCP/IPv6)
🗹 📥 Internet Proto	col Version 4 (TCP/IPv4)
🗹 🔺 Link-Layer To	opology Discovery Mapper I/O Driver
🗹 🚢 Link-Layer To	pology Discovery Responder
instali	Oninstall
Description	
Transmission Con area network proto diverse interconne	trol Protocol/Internet Protocol. The default wide scol that provides communication across acted networks.
	OK Cancel

Set a static IP address of 192.168.0.1 as shown here.

Internet Protocol Version 4 (TCP/II General	2v4) Properties
You can get IP settings assigned aut supports this capability. Otherwise, administrator for the appropriate IP	comatically if your network you need to ask your network settings.
🔘 Obtain an IP address automati	cally
• Use the following IP address:	
IP address:	192.168.0.1
Subnet mask:	255.255.255.0
Default gateway:	· · ·
Obtain DNS server address aut	tomatically
Ouse the following DNS server a	addresses
Preferred DNS server:	· · ·
Alternate DNS server:	· · ·
Validate settings upon exit	Advanced
	OK Cancel

Click OK to back out and close the Windows Control Panel.

Now we can try to open the ENET-A429 device from the AltaView software.

🖲 Open Alta Device	x
Local Devices	Device Name ENET-A429 Bd 1 A429 Bank 1
	Device ID Board Type Board Number INTEL A422 1 Channel Type Channel Number A429 1 Force Init'l Devico is in use Mem Test
	Network Options Local Remote ENET Device (Server) IP Address 192.168.0.128
	This System (Client) IP Address
ОК	Cancel

If all goes well we should see something like this:

	÷	AltaView Bu	s Analyzer	_		x	
1553 A429	WMUX Global				1	🛛 🕜	
EQID/Labels	RX Control File Viewer Start RX Signal Viewer Stop RX Data Table	TX Control Start TX Stop TX	 PB Control Start PB Stop PB 	Z AltaView Users Manual			
Configuration	Receive	Transmit	Playback	PDF Documents			
Configuration Receive Transmit Playback PDF Documents CENET-A429 Bd 1 A429 Bank 1 - x Convice Color Code Clear ENET Stats Device Color Code Clear ENET Stats Device ID 23302000 PE Version 0406 Status Installed PBIT Passed ENET Stats: 19614/0/0 Past Delay: 78 us Memory Available 658512 (180)11:16:37 (Not using IRIG)							

However, if the IP address for the ENET-A429 has been changed and is not what we expect, then we will see an error:

A) 🗋 🗖 🖥	÷		AltaView	Bus Analyzer		_ = X		
1553 A	429 WMUX	Global				🔁 🛛 🔞		
A User Names	BM Control Start BM Stop BM	File Viewer Signal Viewer Data Table	RT Control	BC Control Start BC	 Playback Control Start PB Stop PB 	 AltaView Users Manual MIL-HDBK-1553A MIL-STD-1553B 		
General	Bus	Monitor	Remote Term.	Bus Controller	Playback	PDF Documents		
ENET-A429 B Device Colo								
Device ID PE Version Status	Device ID 23302000 PE Version FFFF Status ENET Timeout (server addr)							
Memory Availa	able 0							
C:\Users\RichWa	de\Documents	Visual Studio 20	08\Projects\Pro	ojects64\AltaVie	ew\AltaView\bin\Rel	ease\AV_Default.xml		

If we don't know the correct IP address for the ENET-A429 device we can use a jumper on the J2 connector to force the device to the factory default IP address (192.168.0.128). We can then use AltaView to program the device with the desired IP address.

The ENET-A429 Hardware Manual shows the J2 pinout, Table A-3 on page 16. Pin 23 is the ~FACTORY IP RESET pin – we need to connect this to GND. I use DB26 pin 11 (pin 8 on circular connector) as a GND line to connect to pin 23. I use the J2 cable assembly with DB26 connector to do this.



Disconnect power to the ENET-A429, jumper pin 23 to GND, then apply power to the ENET-A429.

When the device powers up in reset mode the PWR/BIT LED will be RED.



Now we can use AltaView to open the ENET-A429 **Global device** at the factory default IP address (192.168.0.128). From the Global device we can set the IP address to the desired address.

	÷	AltaV	iew Bus Analyzer	_ = ×	
1553 A S 1553 Options A User Names Time Options General	429 WMUX Global →BM Control File Viewer Start BM Hisignal View Stop BM Data Table Bus Monitor	PGRT Con	Open Alta Device Local Devices		X Device Name ENET-A429 Bd 1 Global Ch 1 Device ID Board Type ENET-A429 1 Channel Type Channel Number Global 1
Detecting Alta D	evices			ОК	Force Intit Device is in use Mem Test Network Options Local Remote ENET Device (Server) IP Address This System (Client) IP Address 192 168.0.128 Cancel

			AltaView	Bus Analyzer	-	= X
1553	429 WMUX	Global				🔁 🛛 🌘
English	Chines Germa	e 🔶 n <mark>sk</mark> e	Japanese se l italia Spanish	n 🔮 Board-Global Control 🖷 Program FLASH	ENET Config	
	Loc	alization		Board-Level	ENET	
ENET-A429 B	d 1 Global Ch 1					٩
🔿 ENET-A	429 Bd 1 Globa	l Ch 1	- X	1		
3 Device	e Color Code	🖻 Clear I	ENET Stats			
Cevice II Device II Firmware Status	e Color Code D Version	Clear 1 23300 0105 Initiali	ENET Stats 1100 ized			

Once the **Global device** is open we have access to the **Global Tools**.

Select the ENET Config tool.

🖲 ENET Config				x
Current Settings				
Current IP Address	192.168.0.128			
Serial Number	1209-00204			
Configuration	AV			
New Settings				
New IP Address	192.168.0.128	>		
1553 Channel 1		A429 Bank 1		
	APMP BM		APMP BM	
APMP Device #	Device 1 👻	APMP Device #	Device 1	•
APMP Dest IP Addr	255.255.255.255	APMP Dest IP Addr	255.255.255.255	
1553 Channel 2				
	APMP BM			
APMP Device #	Device 2 👻			
APMP Dest IP Addr	255.255.255.255			
	ОК	Cancel		

Now you can enter the desired IP Address – we will use 192.168.0.128 to reset the device to the factory default. Click OK to program the device with the new setting.

When programming is complete, close AltaView, disconnect power from the ENET-A429, and remove the jumper from J2.

Apply power to the ENET-A429. Now the PWR/BIT LED should be green. Run AltaView and open the ENET-A429 device at the factory default IP address.

🖲 Open Alta Device	x
Open Alta Device Local Devices	X Device Name ENET-A429 Bd 1 A429 Bank 1 Device ID Board Type EVET-A429 Channel Type Channel Number A423 T Force Init if Device is in use Mem Text Network Options Exect Rest
ОК	ENET Device (Server) IP Address 192 168.0.128 This System (Client) IP Address 192 168.0.1 Cancel

Click OK. Now the device should open successfully.

A) 🗅 🗖 🖬	÷	AltaView Bu	s Analyzer	_	= x				
1553 A429	1553 A429 WMUX Global 🔁 🛛 @								
EQID/Labels	RX Control File Viewer Start RX Signal Viewer Stop RX Data Table	IX Control Start TX Stop TX	 PB Control Start PB Stop PB 	Ż AltaView Users Manual Ź ARINC Protocol Summary					
Configuration	Receive	Transmit	Playback	PDF Documents					
ENET-A429 Bd 1 Bourice Color C	A429 Bank 1 _ ode 🖻 Clear ENET Stats	×							
Device ID PE Version Status ENET Stats: 19776 Memory Available (180)12:23:25	23302000 0406 Initialized PBIT Passed PBIT Passed PBIT Passed PBIT Passed 95/0 0 Path Delay: 78 658512 UDP Port: 555 (Not using IRIG)	us 513							
C:\Users\RichWade\	Documents\Visual Studio 2008	\Projects\Projec	ts64\AltaView\	,AltaView\bin\Release\AV_De	fault.xml 🔡				