IP Serial Server 1 Port for DIN Rail

User Manual	**English**
Benutzerhandbuch	**Deutsch**
Manuel d'utilisateur	**Français**
Manuale	**Italiano**

Hersteller / Manufacturers (EU):

LINDY-Elektronik GmbH
Markircher Str. 20
68229 Mannheim
Germany
T: +49 (0)621 470050
info@lindy.de

LINDY Electronics Ltd.
Sadler Forster Way
Teesside Ind. Estate, Thornaby
Stockton-on-Tees, TS17 9JY
United Kingdom
T: +44 (0) 1642 754000
postmaster@lindy.co.uk

LINDY No. 42721

www.lindy.com

Tested to Comply with FCC Standards
For Home and Office Use!

Introduction *English*

Thank you for purchasing the LINDY IP serial Server for DIN Rail Mounting. It allows connection of a RS232 serial device to 10/100 Ethernet, thus controlling a RS232 device or reading out data from a measuring instrument with RS232 port via internet or an in-house network.

Main Features *English*

- Mode: Asynchronous serial communication
- Connectors: 1x D9 M, 1x RJ-45 F (10/100 Mbit/s)
- 10/100 Mbit/s, auto MDI/MDIX
- Configurable via web browser
- Full and half duplex serial port modes
- Baud rate up to 921.6 Kbit/s
- For DIN Rail mounting
- Includes 12V 1.25A MC PSU w/1.4m DC cable and DC adapter cable (5.5/2.5mm to 3.5/1.35mm)
- 2-pin terminal block, supports 10-30V power input
- Power consumption: 90mA@24VDC
- Supported Operating Systems: Windows 2000/XP/Server 2003/Vista/Server 2008/Windows 7 (64-bit)/8 & 8.1

Package Contents *English*

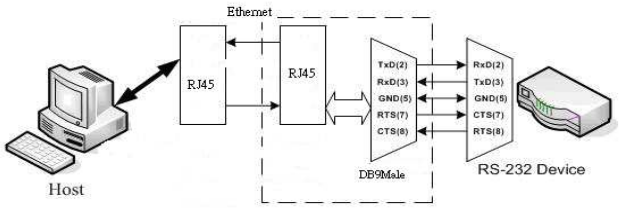
- IP Serial Server
- Mounting Bracket
- Multi-Country PSU 12V 1.25A w/ DC adapter cable
- Generic CD
- LINDY Manual

Technical Specification *English*

- Gateway, IP address
- Operation mode: VSP COM (Virtual Serial Port), TCP Server, TCP Client, UDP, Paired Mode
- Signals: TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND
- Remote Control of RTS, CTS, DTR and DSR lines
- Internal EEPROM for configuration storage
- Detailed status indication via LEDs
- Setup through the serial port or network
- HTTP, UDP (management configurable) tools setup
- "On the fly" commands for intermediate serial port configuration change
- Serial side modem commands for network connections control
- Direct control of ADSL modems
- Data Bits: 7, 8 - Stop Bits: 1,2
- Flow Control: RTS/CTS, X-On/X-Off
- Parity: None, Even, Odd, Space, Mark
- Supports HTTP, DHCP, ICMP (PING), Static IP and ARP
- 1024KB flash for firmware, aplication and data storage
- 2KB EEPROM for data storage
- 15 kV ESD protection for RS-232 serial port
- Operating Temperature: -35°C ~ 70°C
- Humidity: 5-95%, non-condensing

The Virtual Serial Port Drivers for Windows allow you to transparently access your device server´s serial port as if it was a real COM port of your PC.
This serial over IP device supports standard TCP/IP and UDP/IP protocols. Open a socket and exchange data with the serial port of your device server directly.

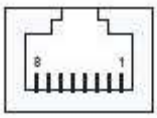
Installation Data *English*



D9 female pin assignment:

NO	D9 Male
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	

Connector RJ45:

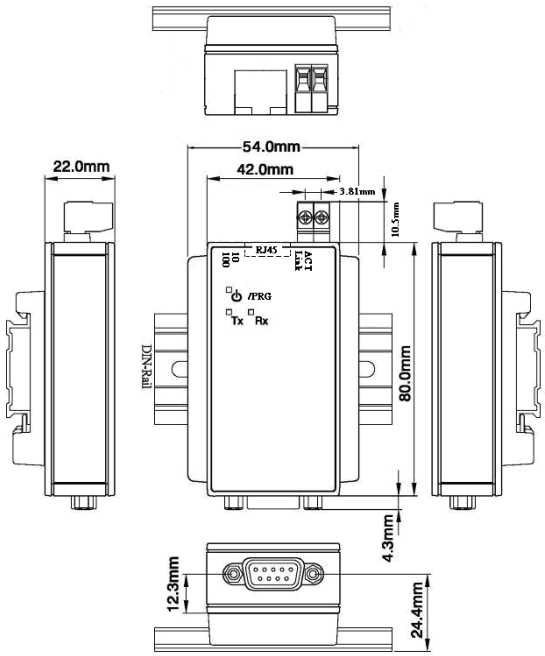


PIN	
1	TX+
2	TX-
3	RX+
6	RX-

Initial factory setting:

- Button reset 5sec. up recovery initial factory
- Password: no
- IP address: 192.168.1.1

Dimension of the housing:



- Gateway address: 192.168.1.254
- Subnet mask: 255.255.255.0

Set up steps – Software:

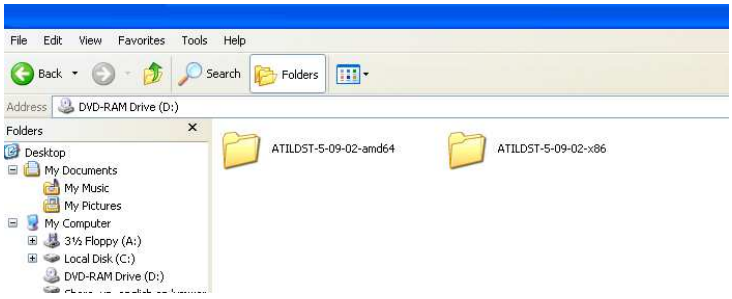
1. On the driver CD go to the directory 'RS232 Device Server'.
2. According to your Windows version (32 or 64 Bit), open up the respective subdirectory ('Serial Device Server -<OS suffix>', where 'OS suffix' means 'x86' for a 32Bit Windows and 'amd64' for a 64Bit Windows).
3. From this directory run the file 'ATILDST<serial no.><OS suffix>.exe. The term 'serial no.' may vary depending on the driver version.
4. The following Windows will open subsequently and require your action before the installation can be started:
   - "Licence Agreement" -> I Agree
   - "Choose Components", we recommend to choose "full" -> Next
   - "Choose Install Location", we recommend to leave this as suggested -> Install
   - "Completing the Atil Device Server Toolkit Setup Wizard" -> Finish
5. After completing the installation process, from the start or metro menu, the software "Atil VSP Manager" may be started.

Configuration via network

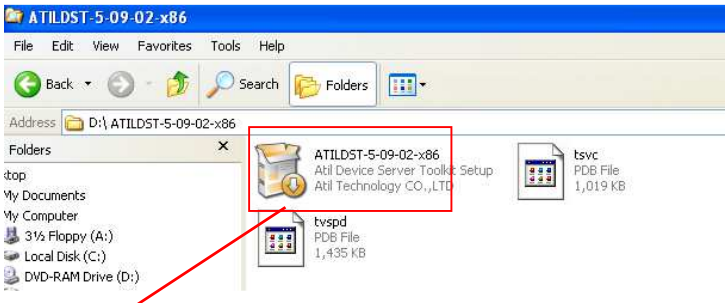
- Open your browser and navigate to http://192.168.1.1
- In the original factory settings, no password is required - just click 'Login'.
- Adjust your settings to your needs as described in the file "RS232 Device Manager - manual.doc" on the CD.

Application *English*

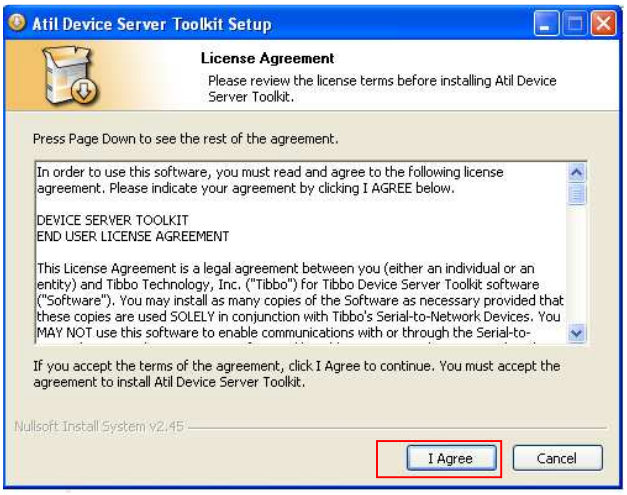
Virtual Serial Port Driver installation guide for Windows XP/7/8.x 32bit - 64bit

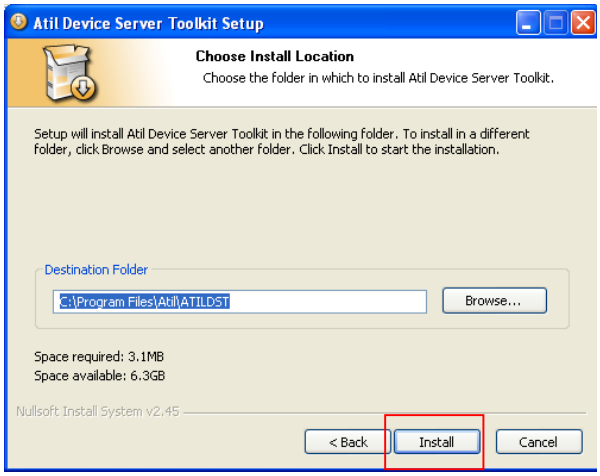


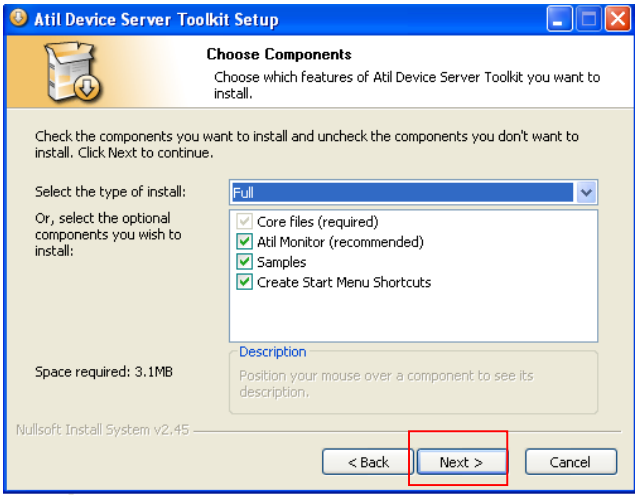
ATILDST-5-09-02-amd64 for 64bit windows operation system
ATILDST-5-09-02-x86 for 32bit windows operation system

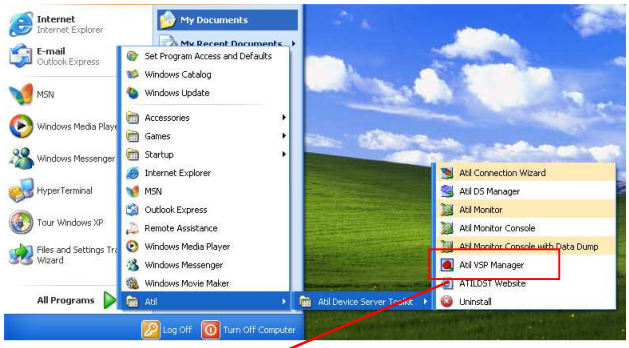


RUN ATILDST-5-09-02-x86





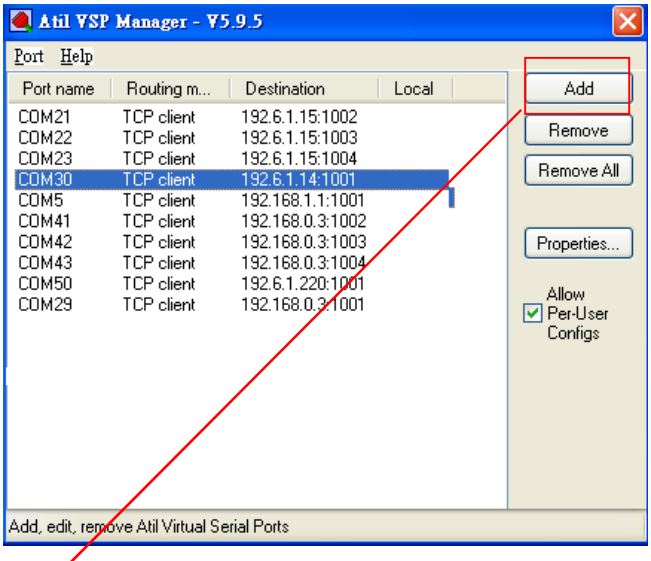




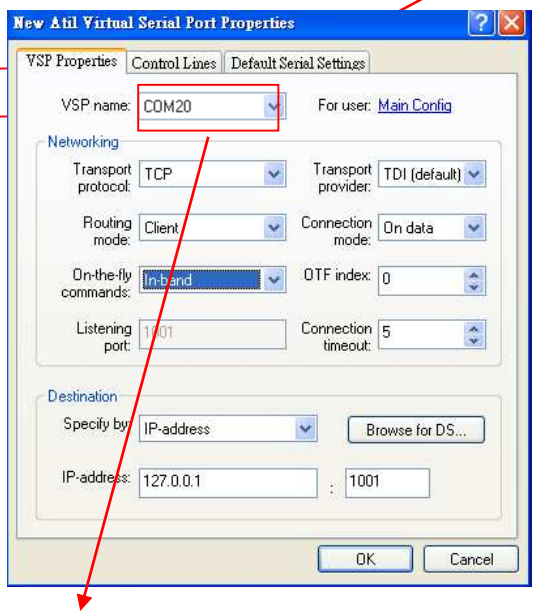
POWER ON Serial Over IP Device

RUN Atil VSP Manager

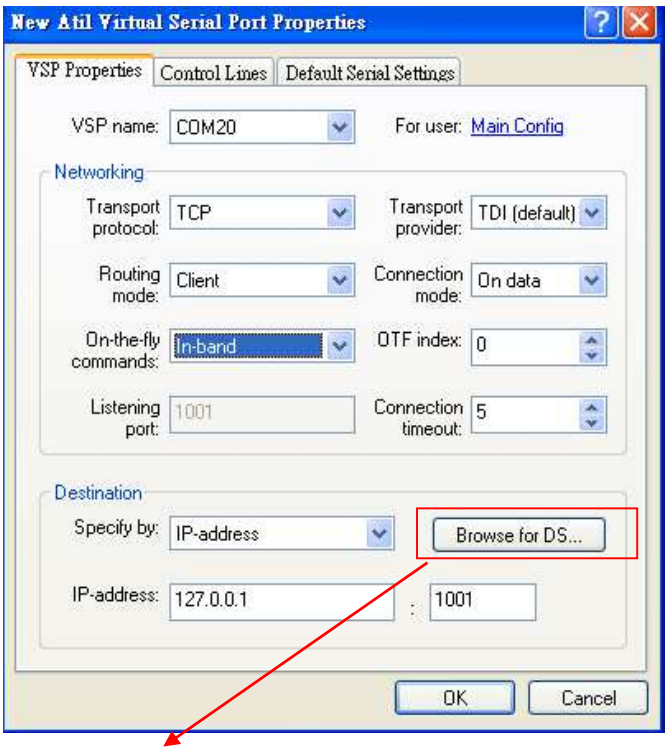
Virtual Serial Ports setting



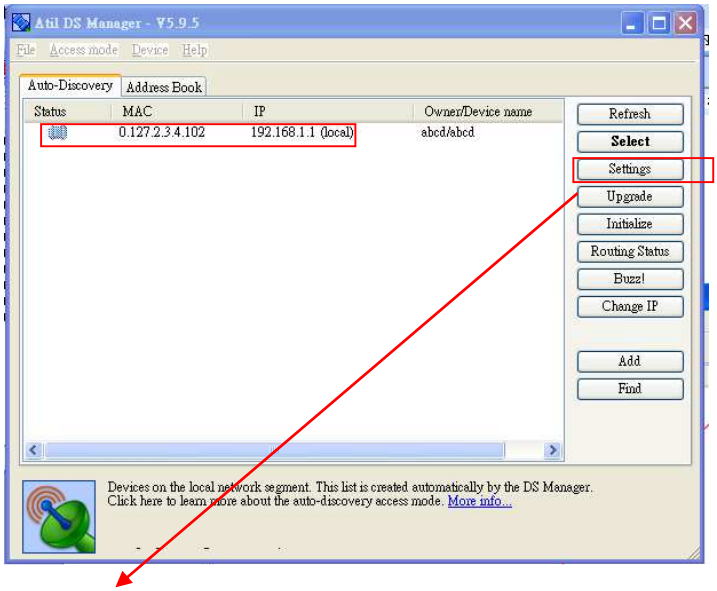
Click Add



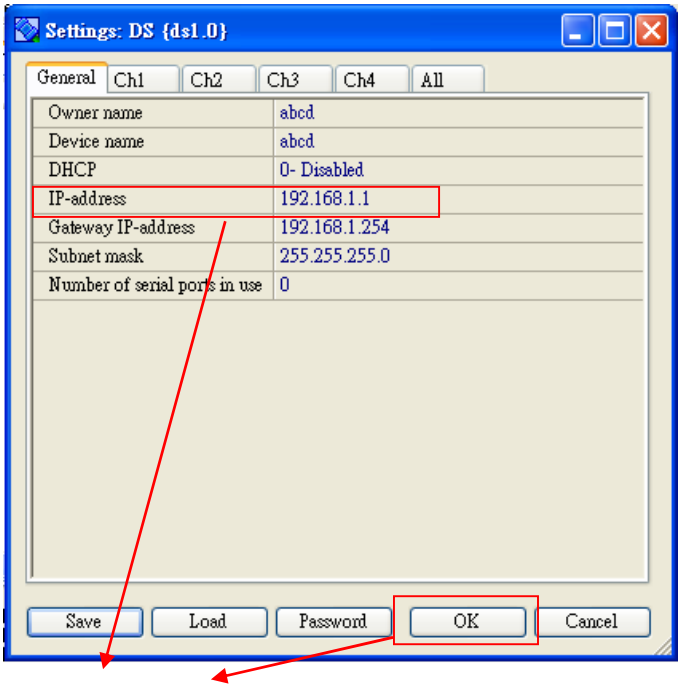
Select Open Virtual Serial COM



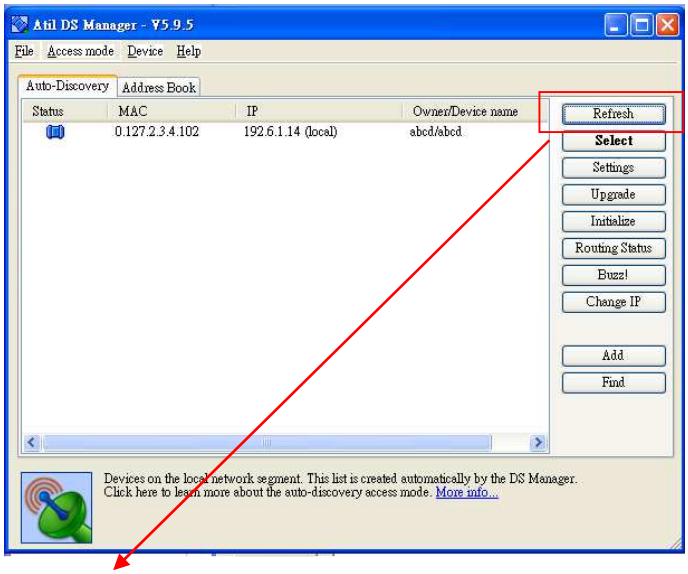
Search Serial over IP Devices
Different Local Area Network



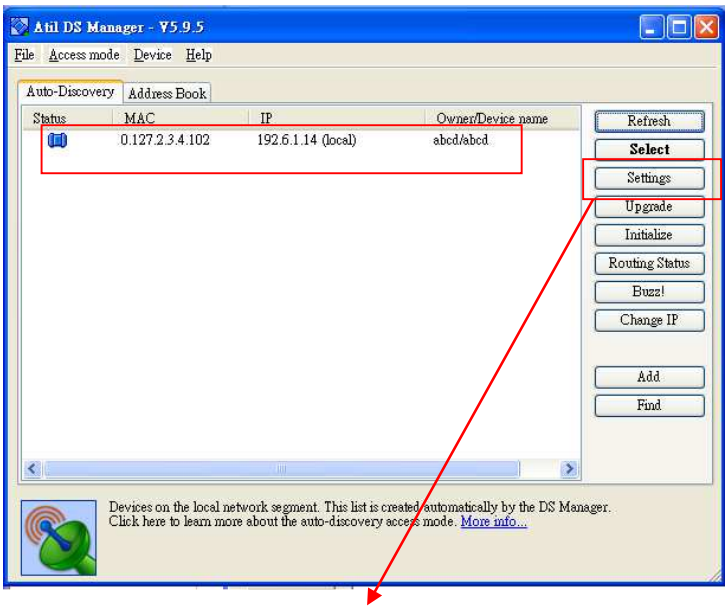
Click blue icon and Settings
Change IP address



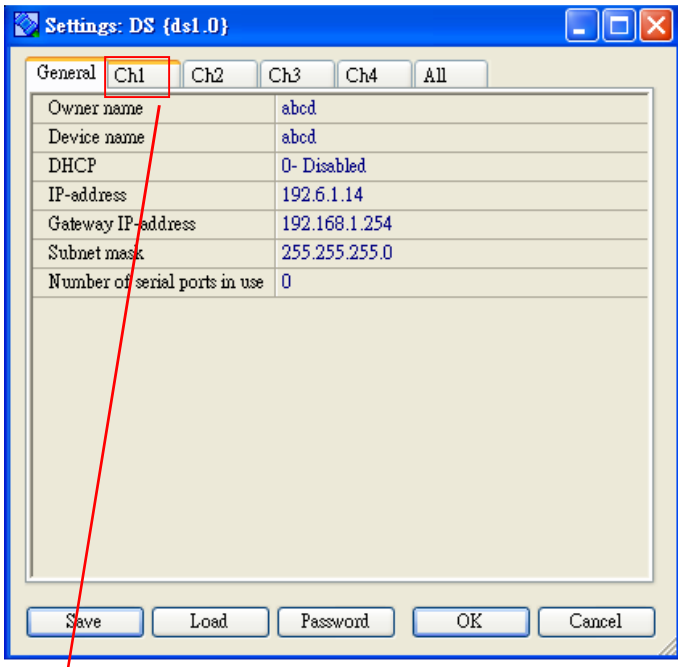
Change IP address Local Area Click OK
Reboot Serial Over IP Device



Click Refresh

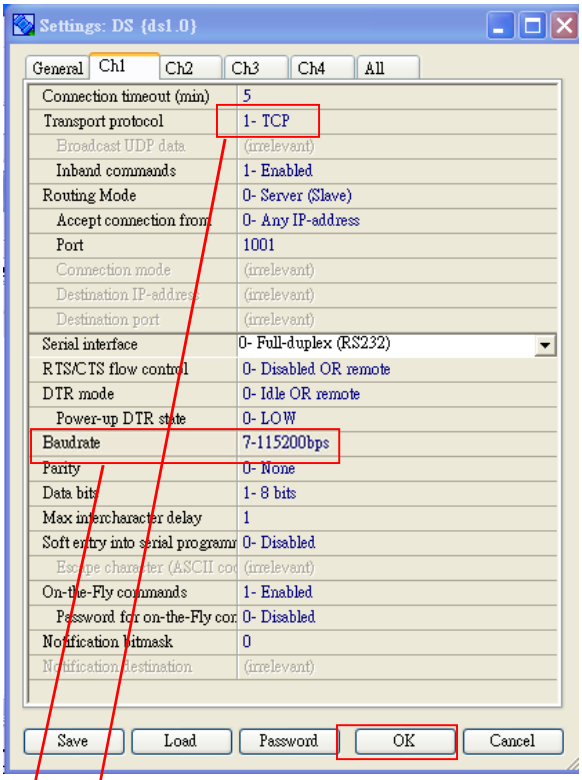


Local Area Network Status and Click Settings



Click Ch1

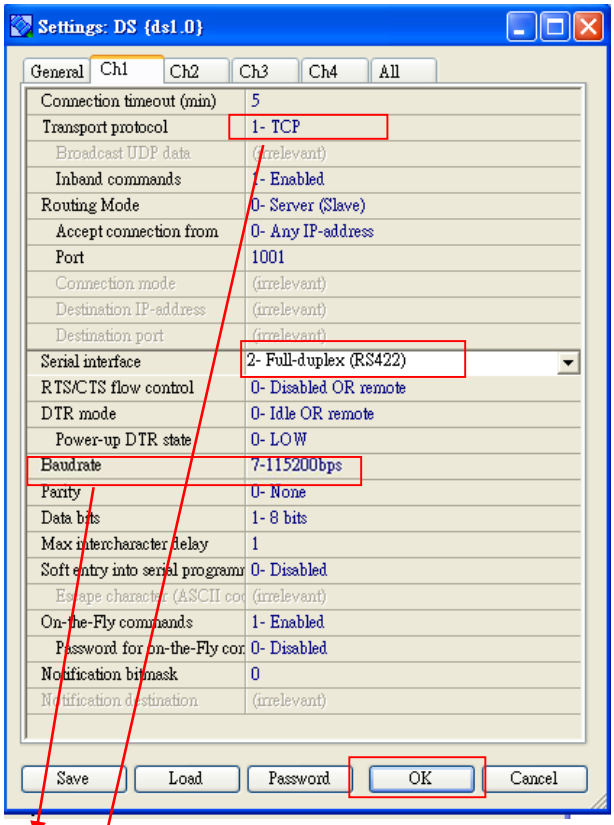
For RS232



Baud rate setting Serial Over IP Device Power ON
Initial Baud rate the same equipment

TCP/IP (Winsock)

RS422

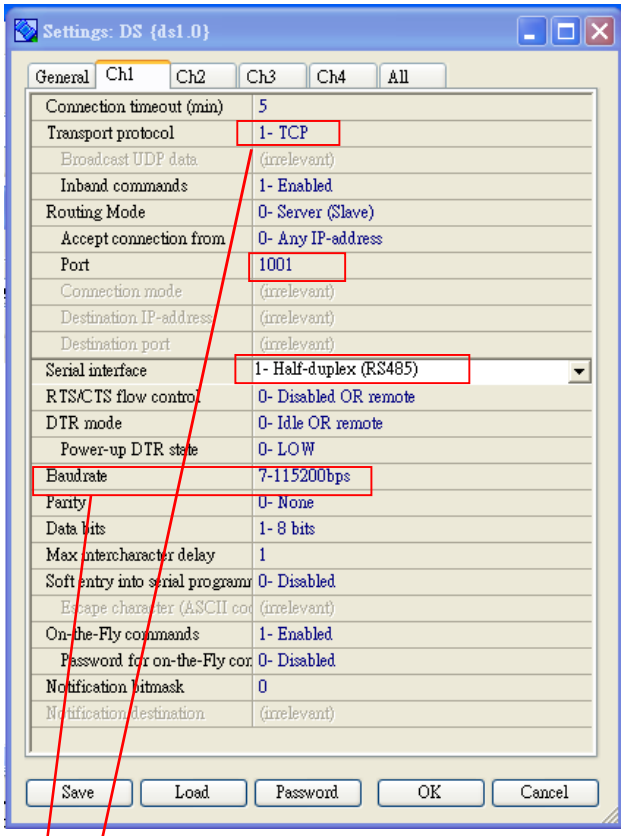


Baud rate setting Serial Over IP Device Power ON
Initial Baud rate the same equipment

TCP/IP (Winsock)

RS422 SW set

RS485

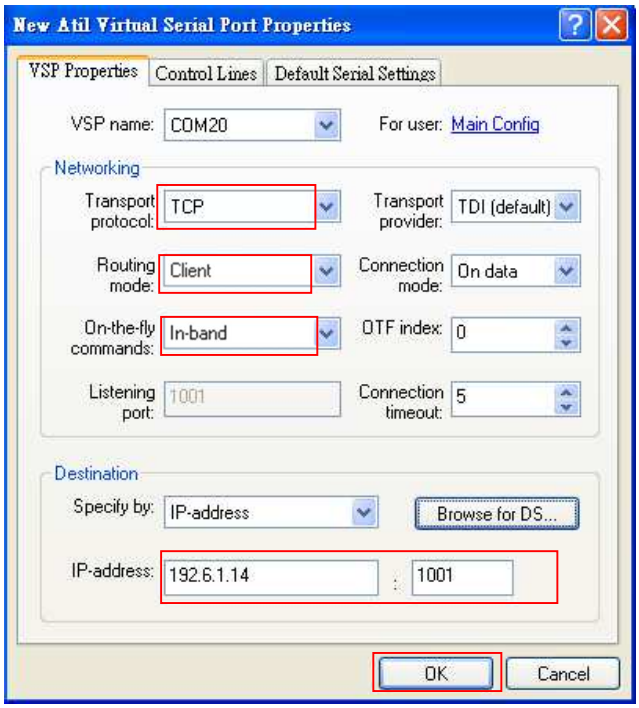


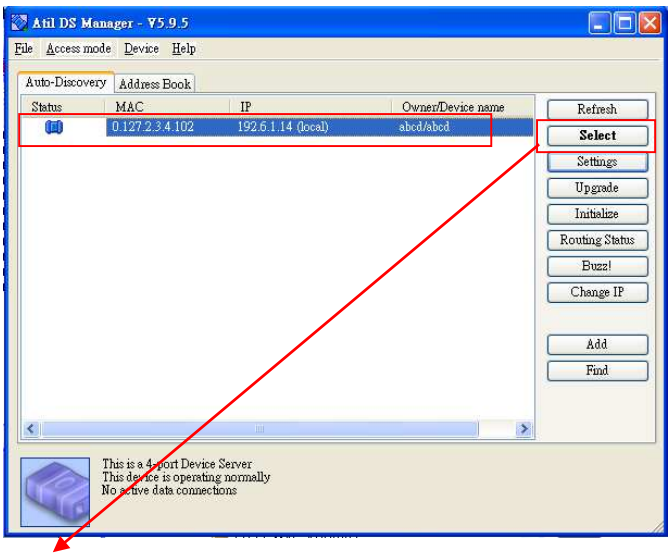
Baud rate setting Serial Over IP Device Power ON
Initial Baud rate the same equipment

TCP/IP (Winsock)

RS485 SW set

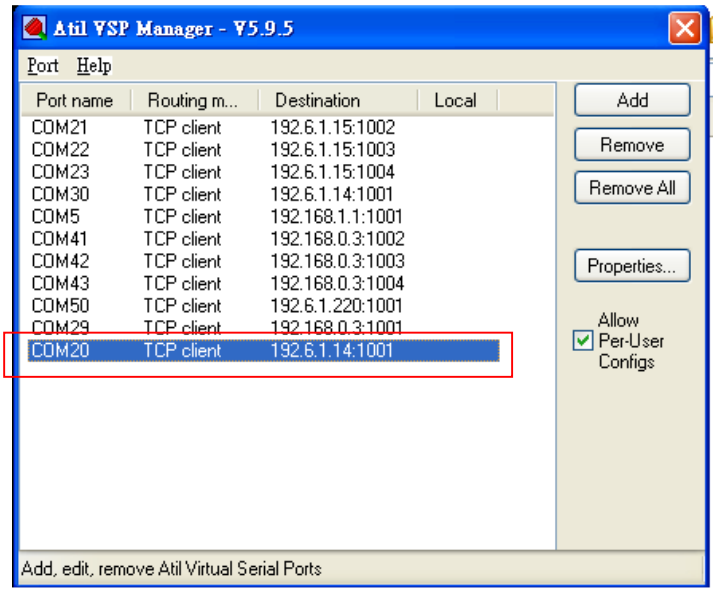
Red block set and Click OK

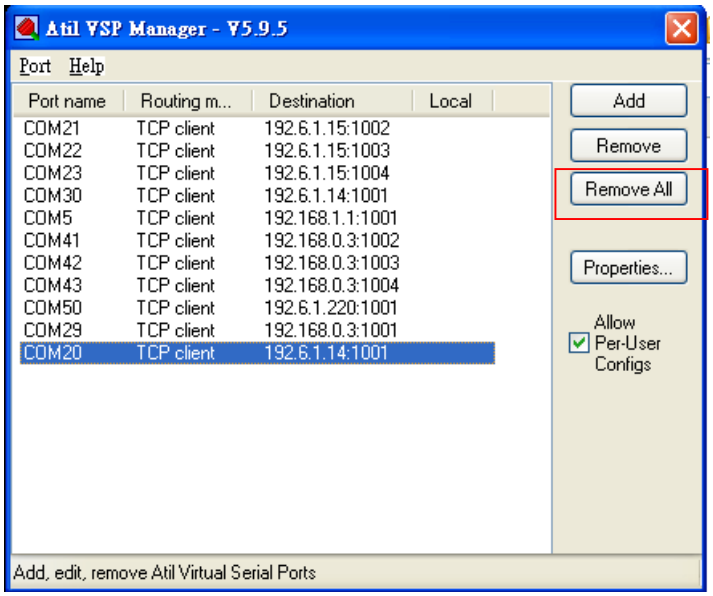




Click Select

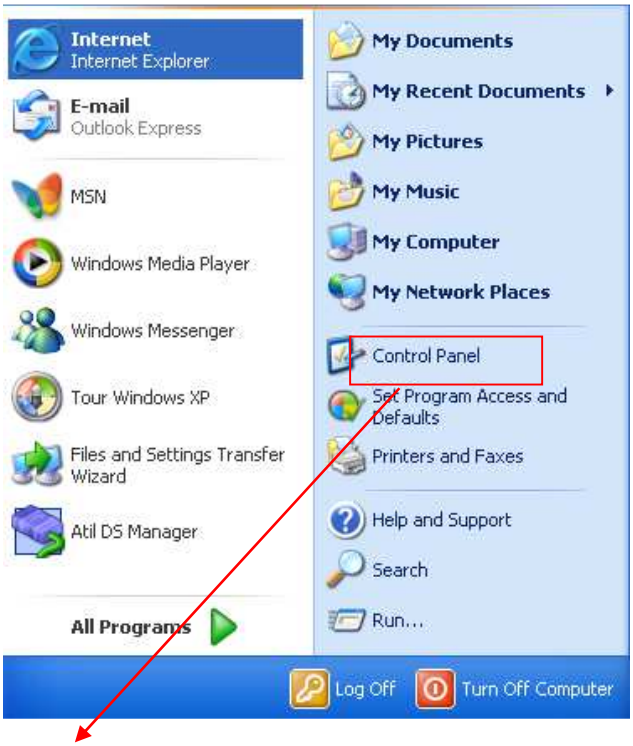
Virtual Serial Port (Virtual COM Port) OK
Open COM20



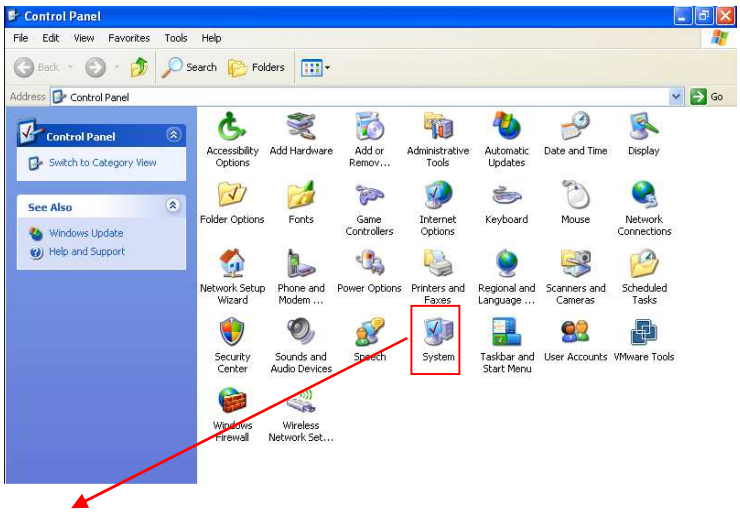


Delete Virtual Serial Port select COM20 and Click Remove

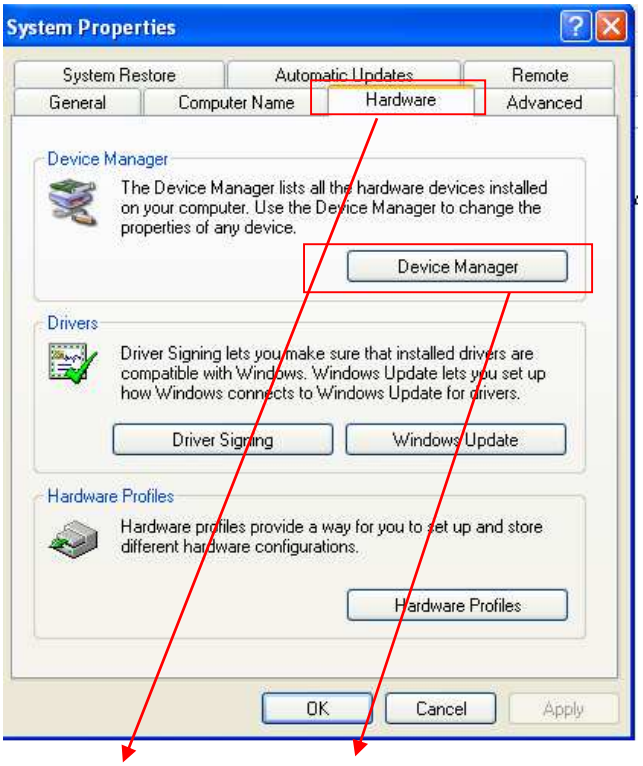
Checking Virtual Serial Port Control Panel



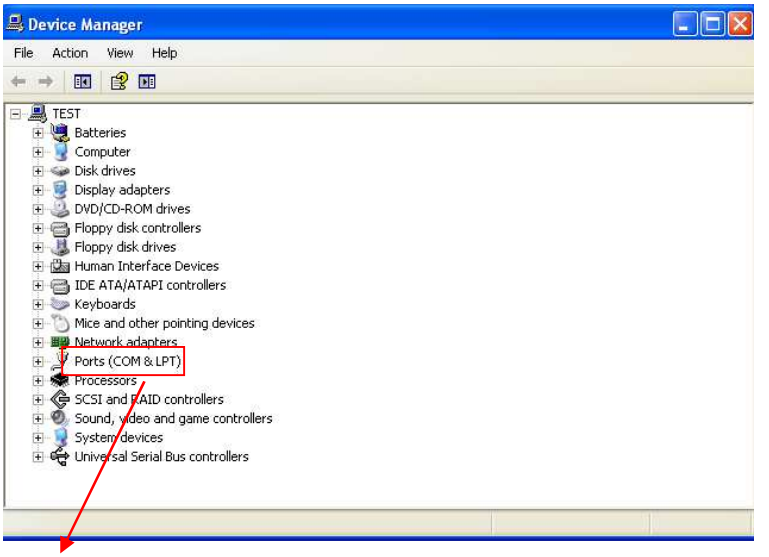
Click Control Panel



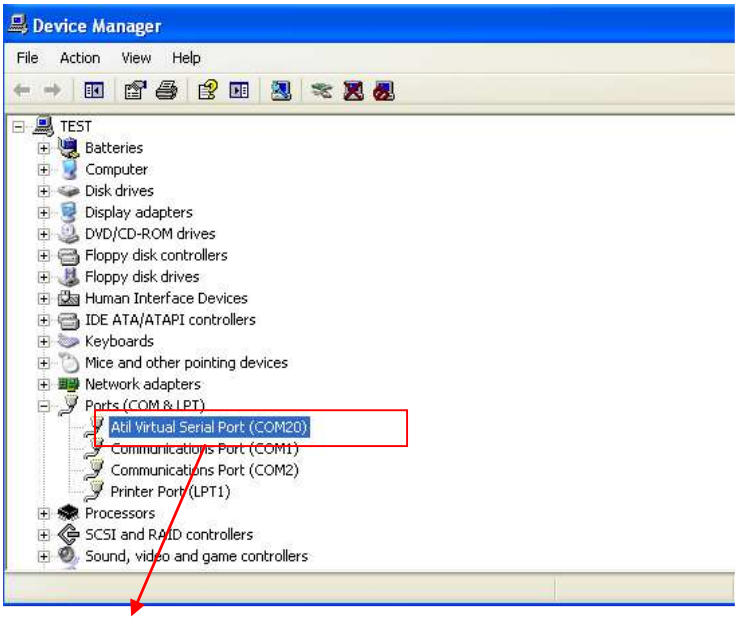
Click System



Click Hardware and Device Manger



Click Ports

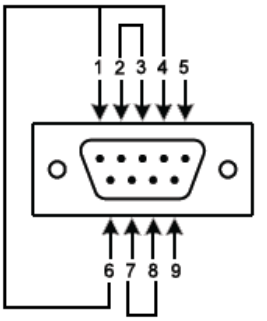


Serial over IP Virtual Serial Port OK

Test COM Port Loop back

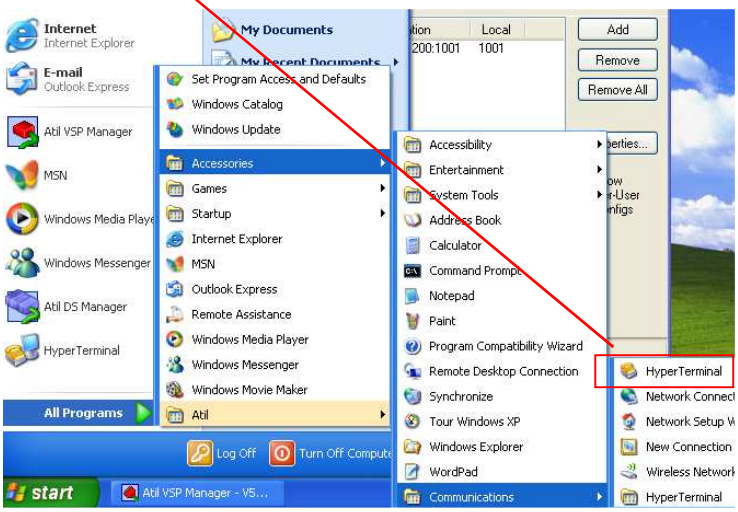
Loop back DB9

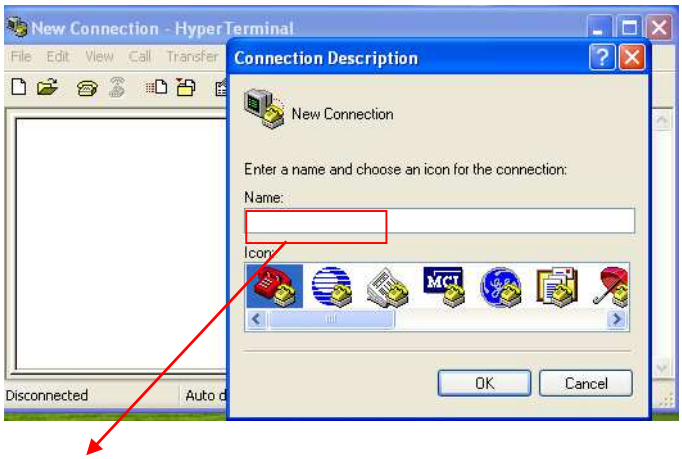
DB9 Male



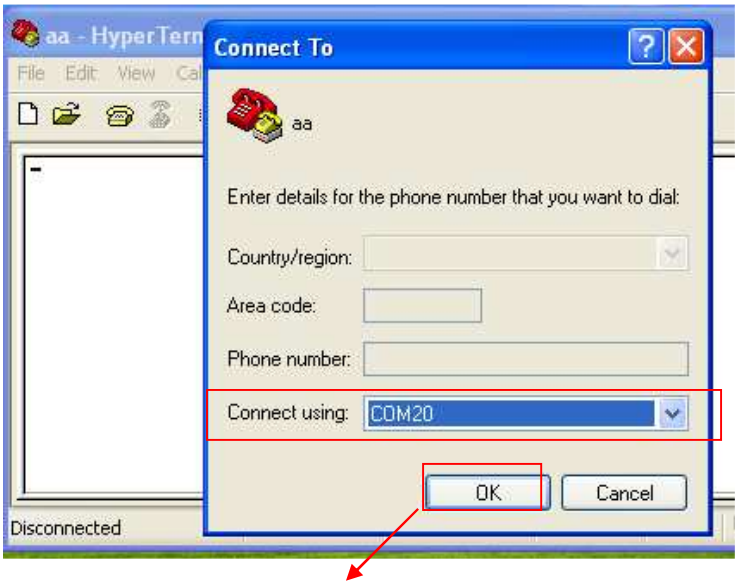
DB9 M	
Pin	**RS232**
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS

Open Hyper Terminal

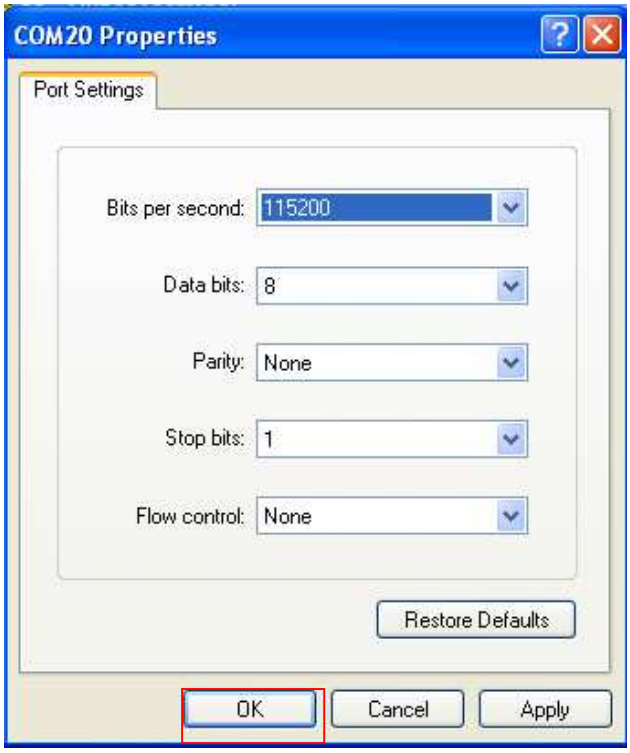


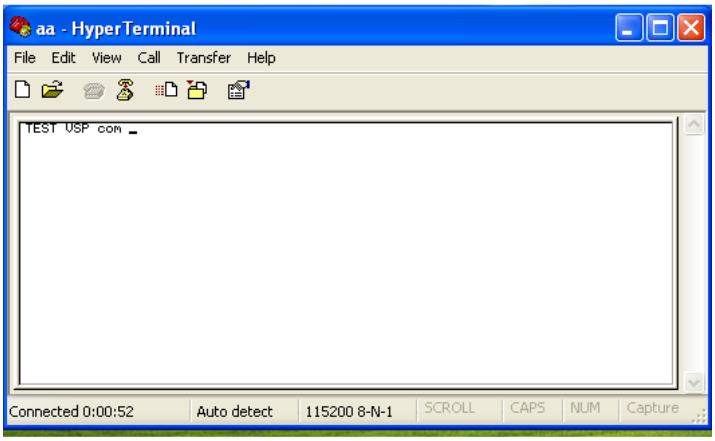


Name aa



Connect Using COM20 and Click OK

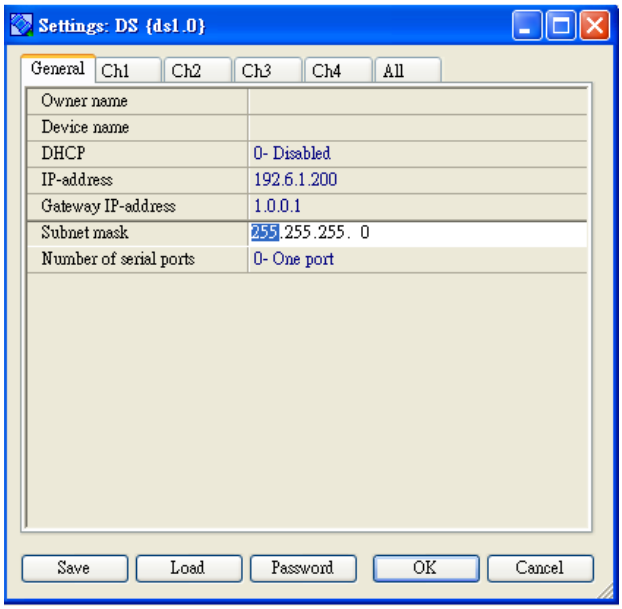


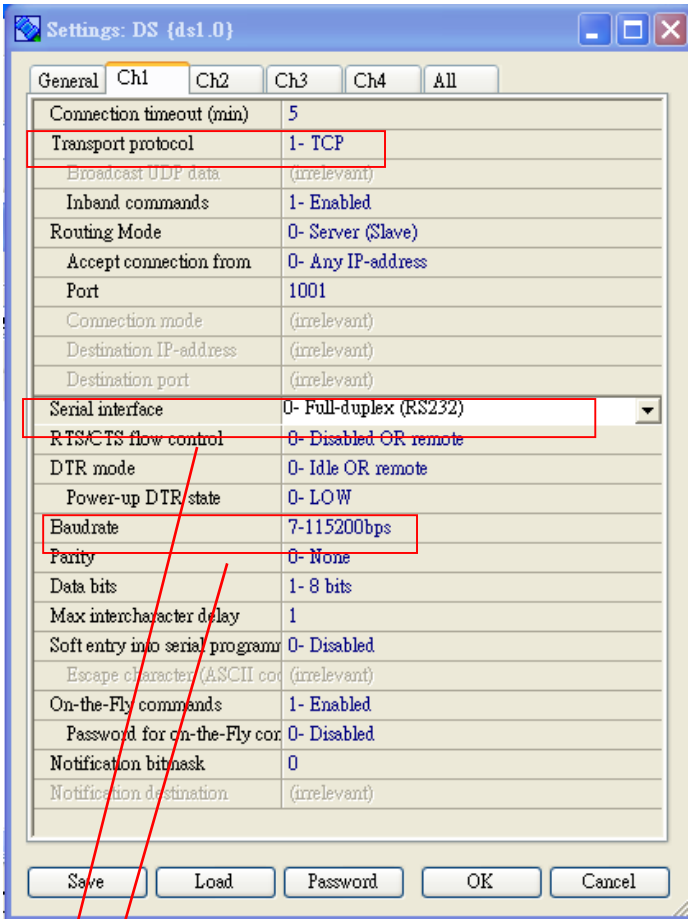


Virtual Serial Port COM20 test OK

TCP/IP Link

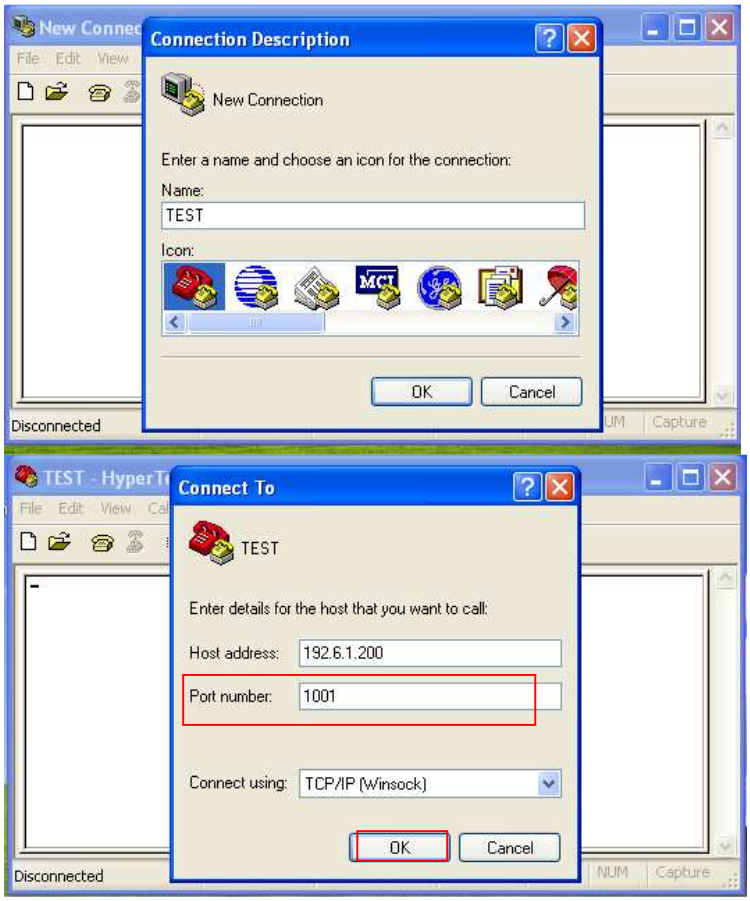
Check set Ch Transport protocol



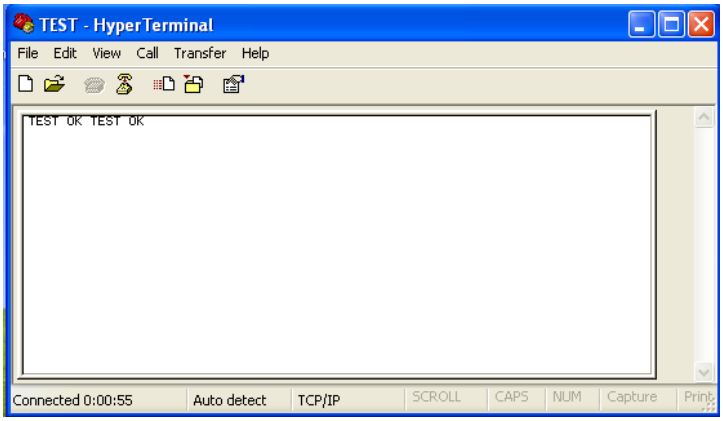


Select Serial interface RS232 RS422 RS485

Baudrate set



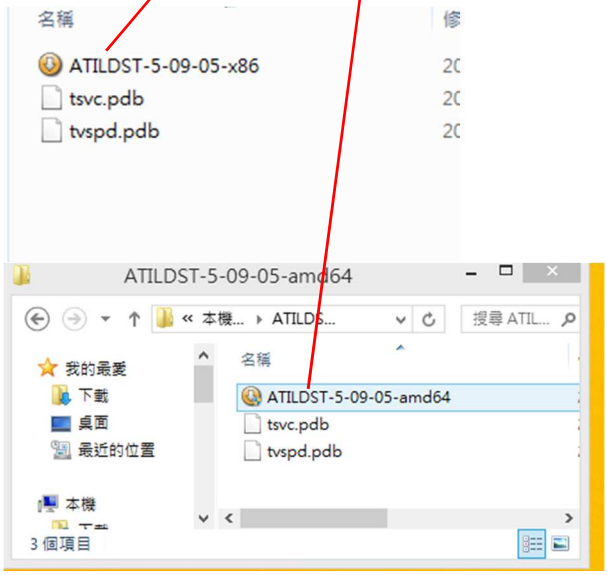
IP-address: 192.6.1.200
Default
Port number :1001
Ch1=1001,Ch2=1002,Ch3=1003,Ch4=100



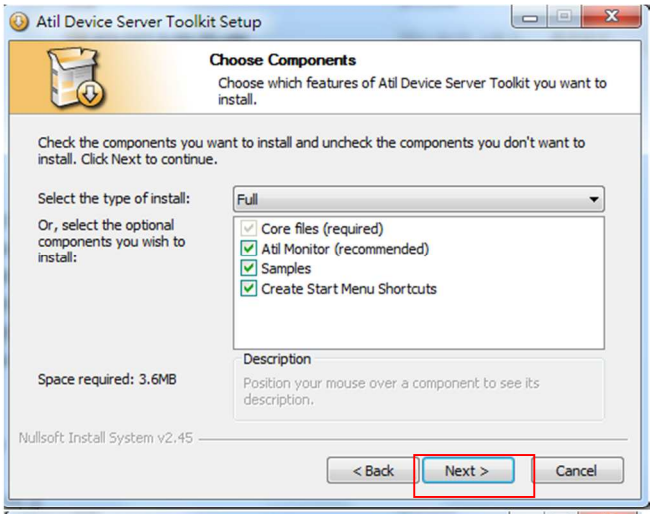
Virtual Serial Port Driver Windows 7

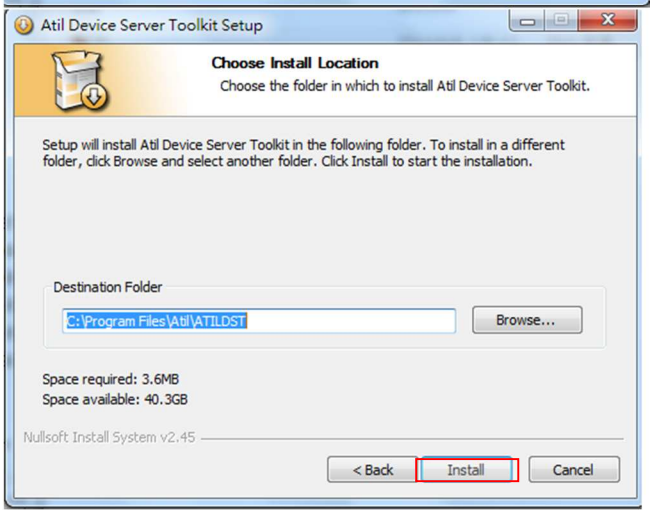
ATILDST-5-09-02-amd64 for 64bit windows operation system

ATILDST-5-09-02-x86 for 32bit windows operation system

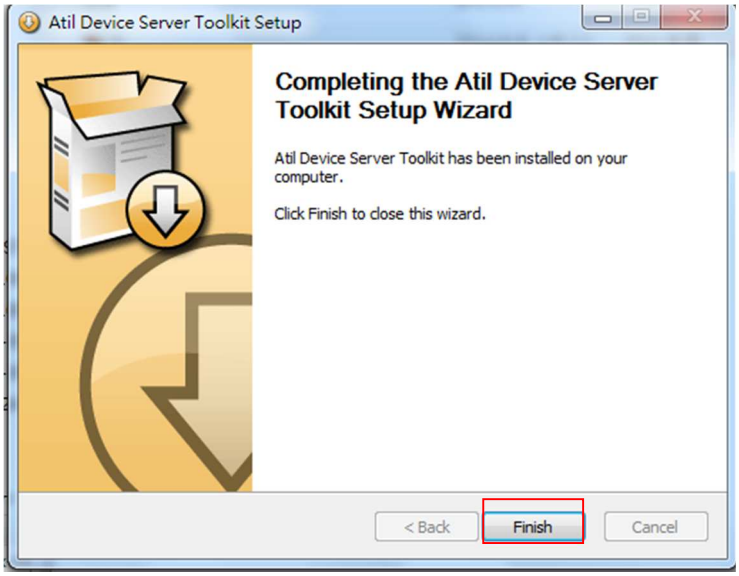


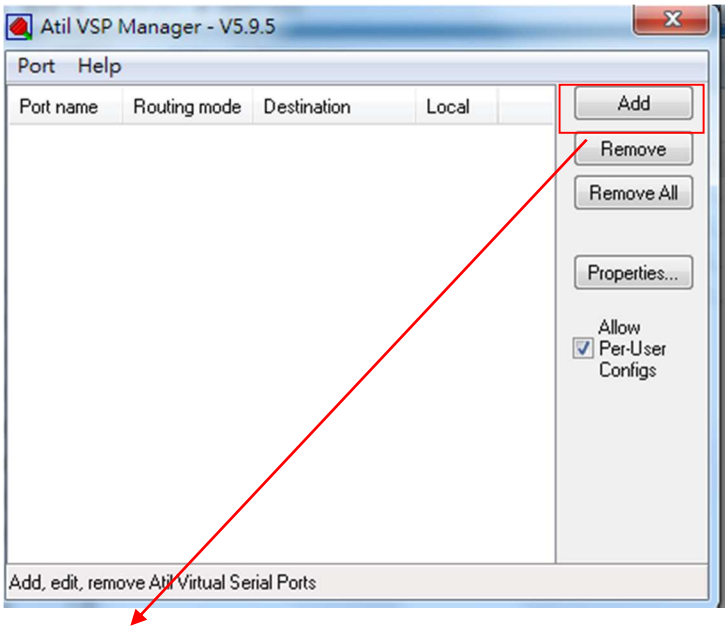
RUN



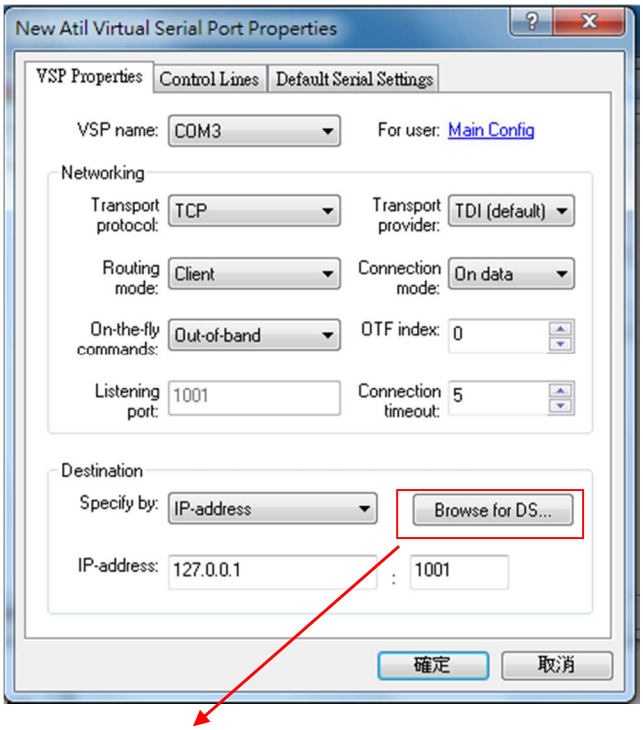


RUN Atil VSP Manager

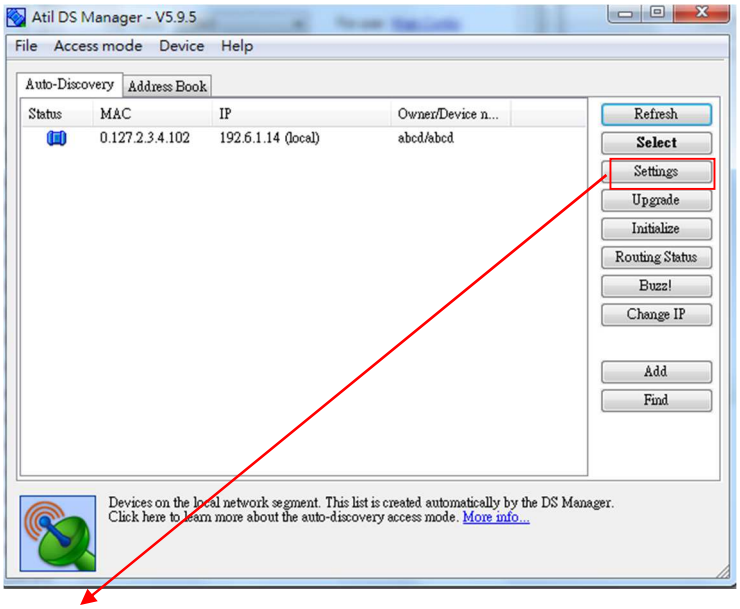




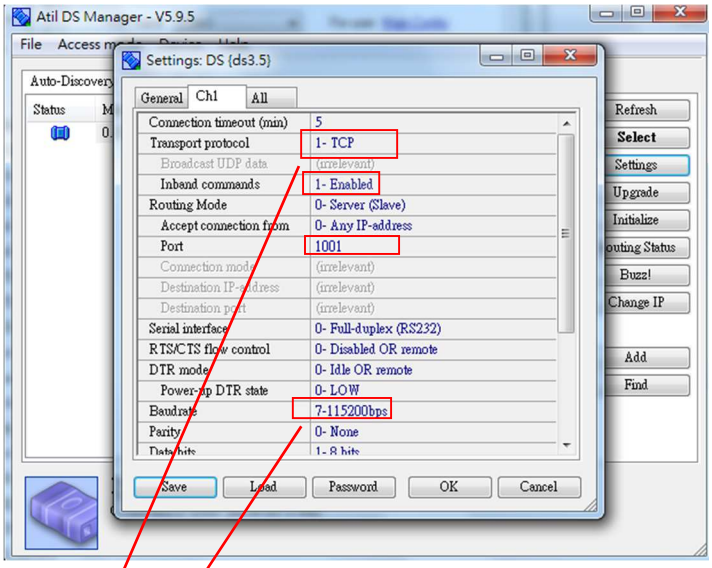
Add Virtual Serial Ports



Select Click Browse for DS

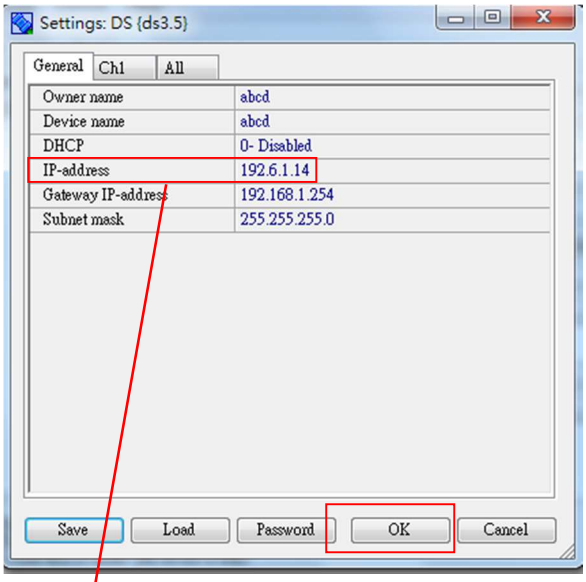


Settings



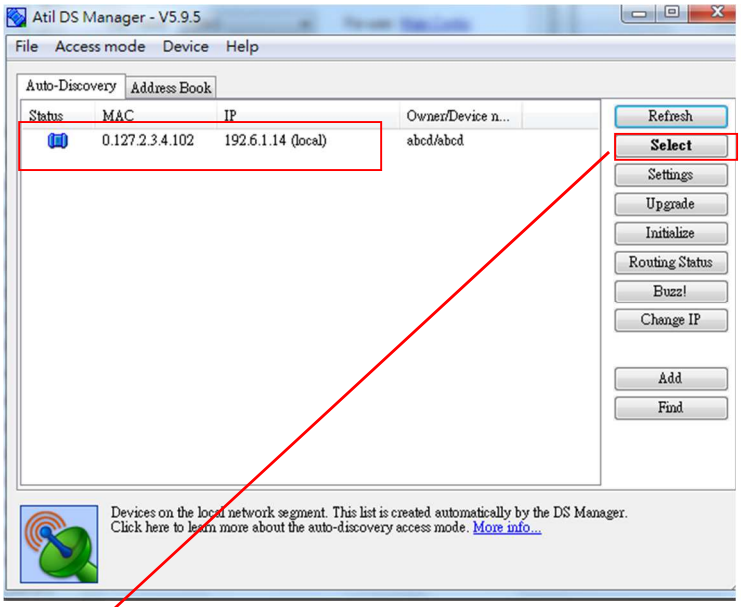
Baud rate setting Serial Over IP Device Power ON Initial Baud rate the same equipment

TCP/IP (Winsock)

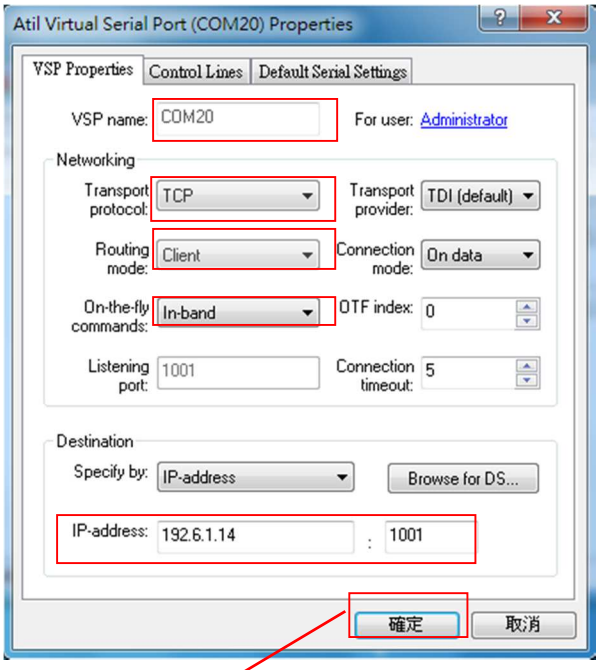


Change IP address Local Area Click OK

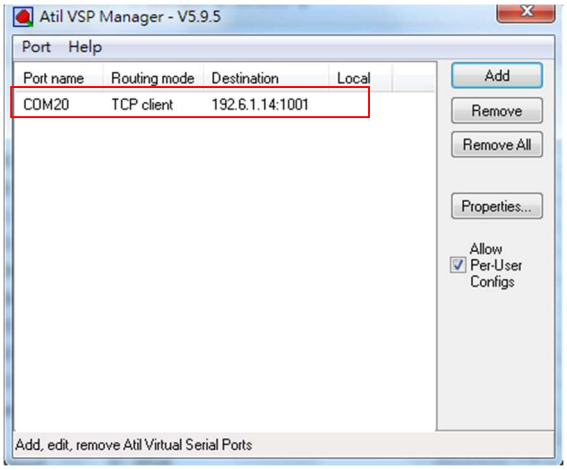
Reboot Serial Over IP Device



Select

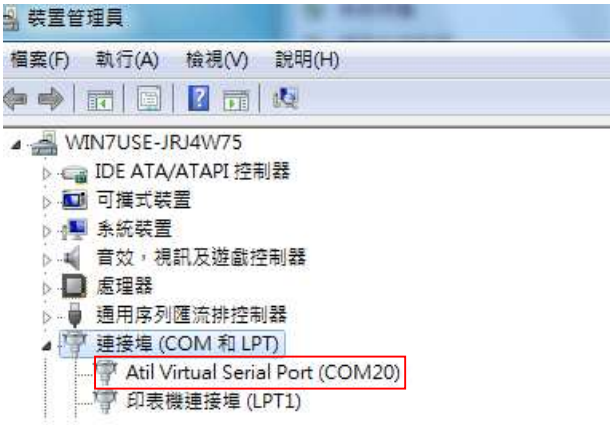


VSP name COMx
IP-address :port
OK

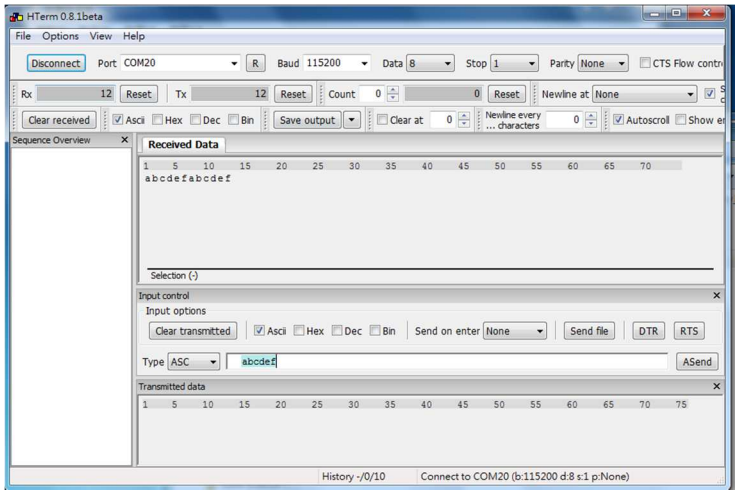


Virtual Serial Port

OPEN COM20 OK



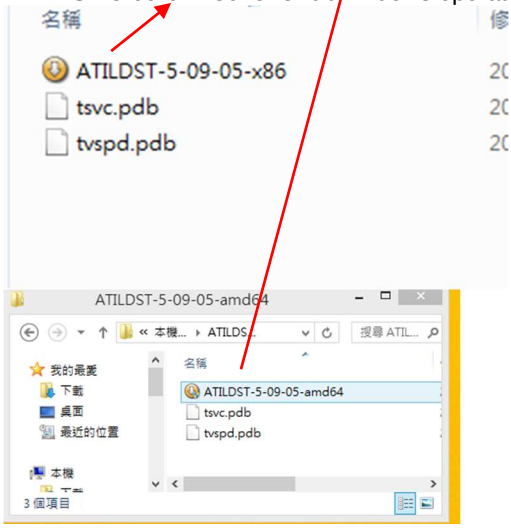
Test COM Port Loop back



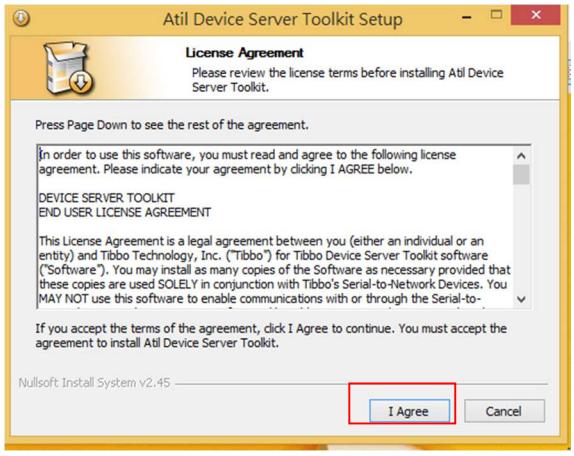
Virtual Serial Port Driver Windows 8.x

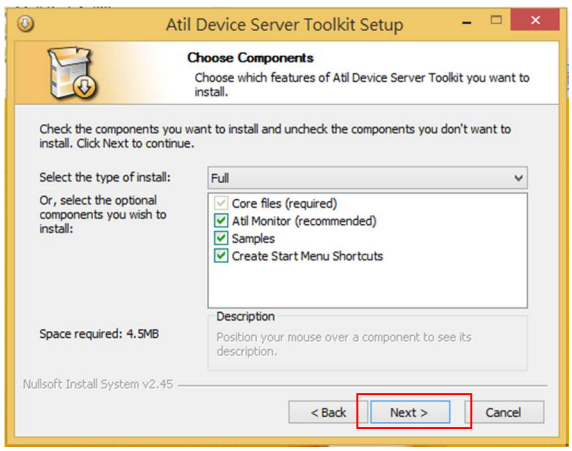
ATILDST-5-09-02-amd64 for 64bit windows operation system

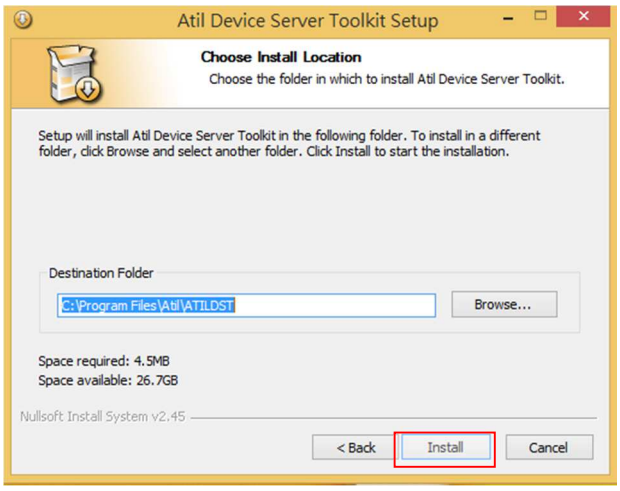
ATILDST-5-09-02-x86 for 32bit windows operation system

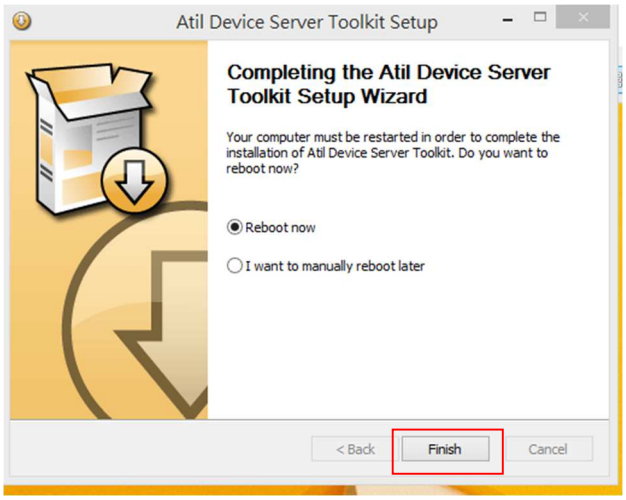


RUN

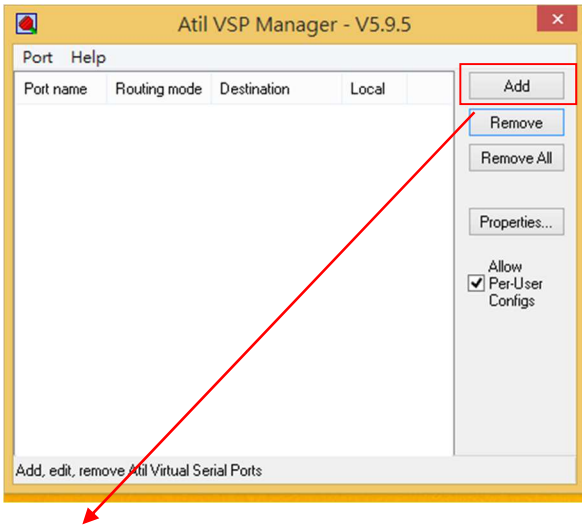




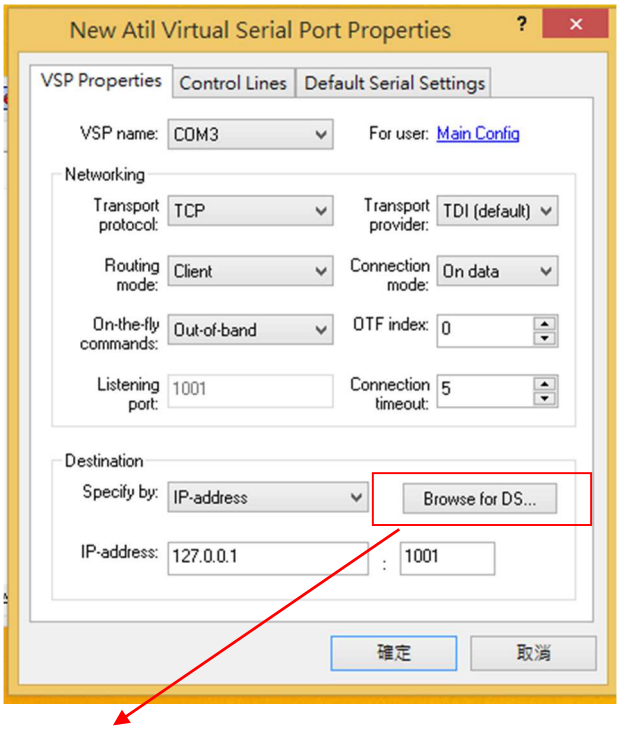




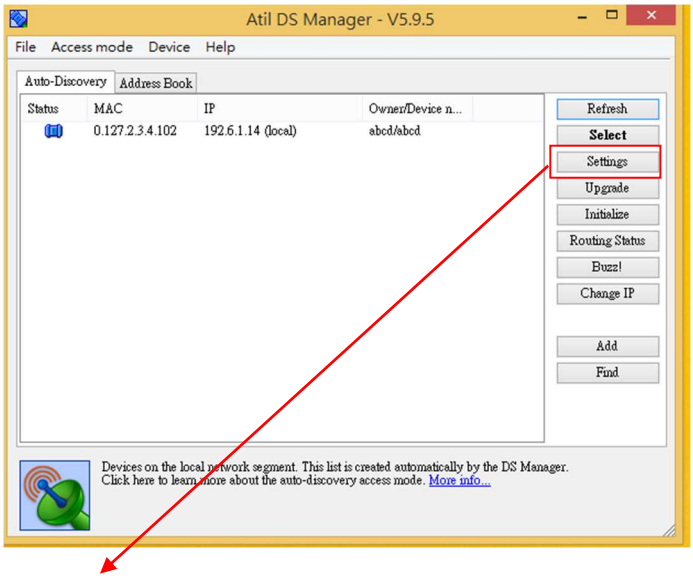
RUN Atil VSP Manager



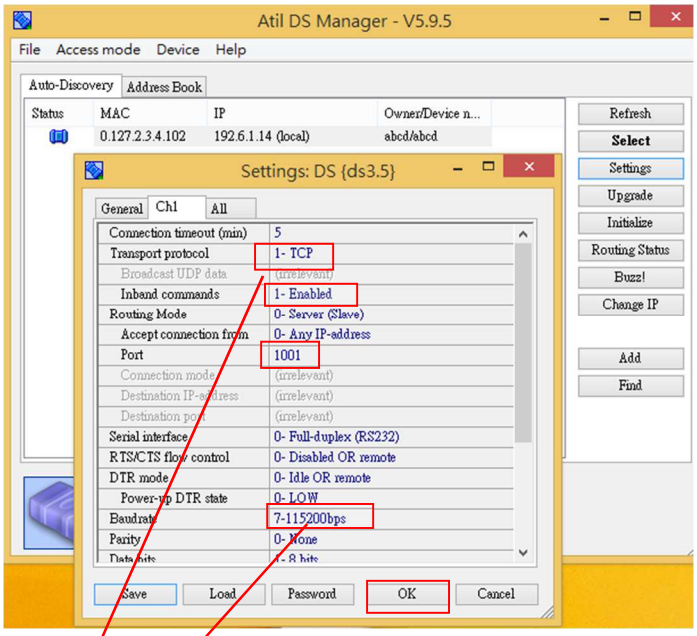
Add Virtual Serial Ports



Select Click Browse for DS

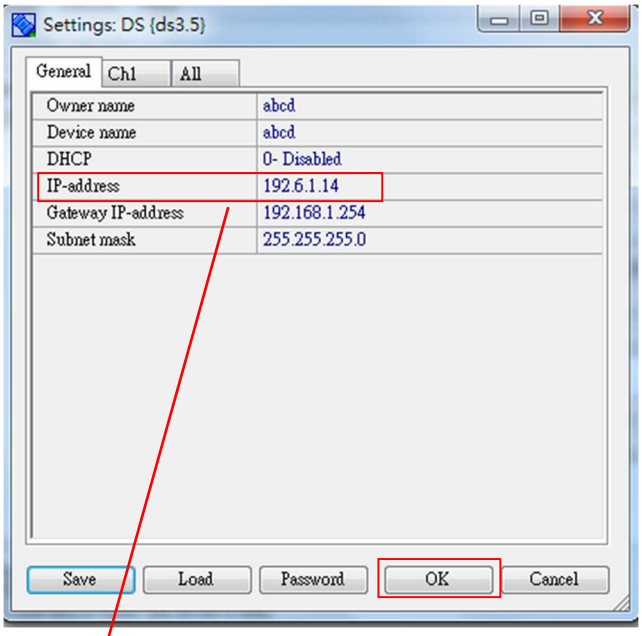


Settings

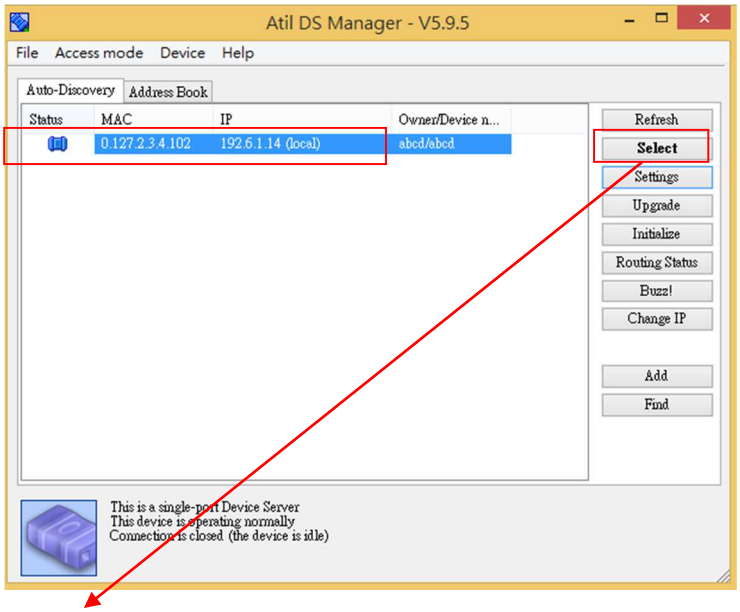


Baud rate setting Serial Over IP Device Power ON
Initial Baud rate the same equipment

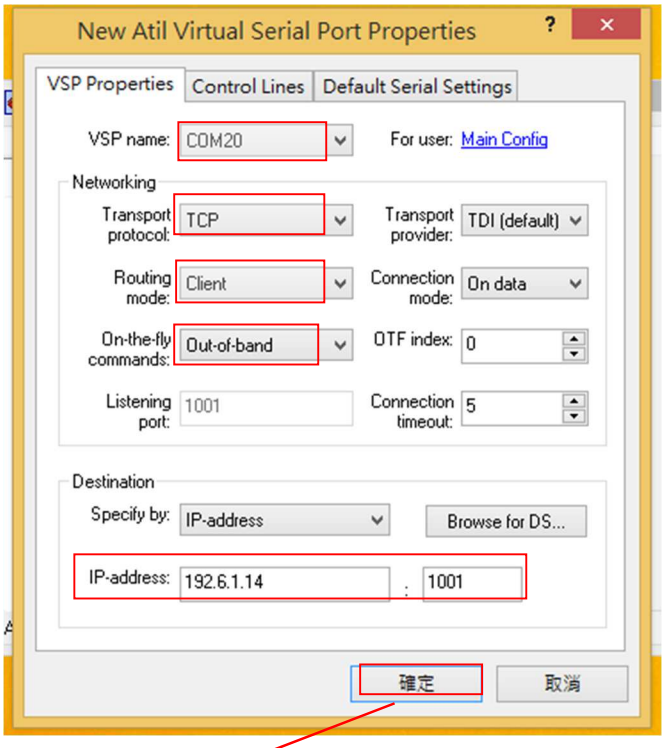
TCP/IP (Winsock)



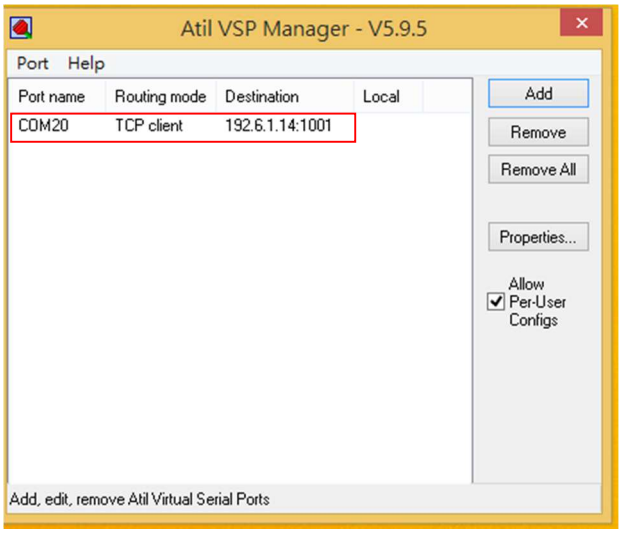
Change IP address Local Area Click OK
Reboot Serial Over IP Device



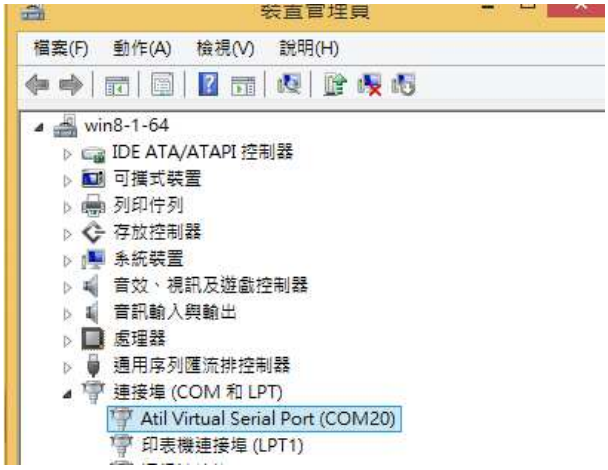
Select



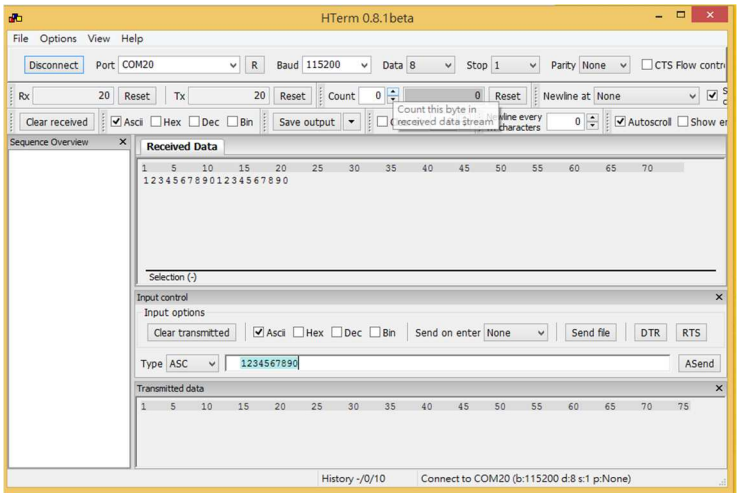
VSP name COMx
IP-address: port
OK



Virtual Serial Port
OPEN COM20 OK



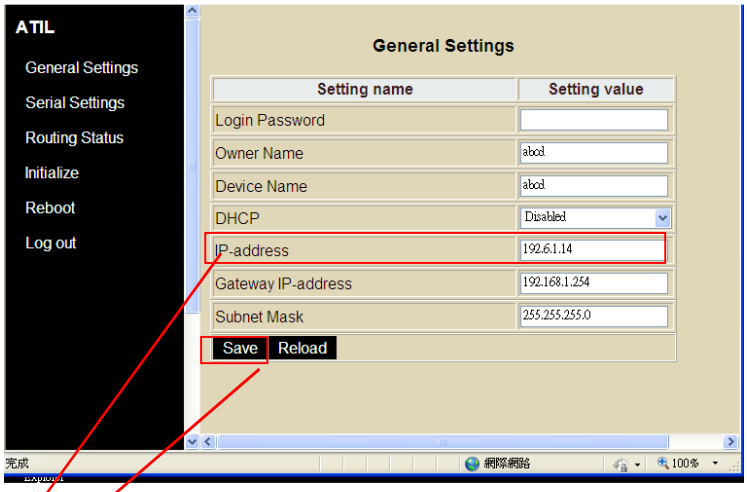
Test COM Port Loop back



WEB setting

Initial factory setting
Password :
IP-address:192.168.1.1
Gateway-address :192.168.1.254

Example IP 192.6.1.14
Local Area Network

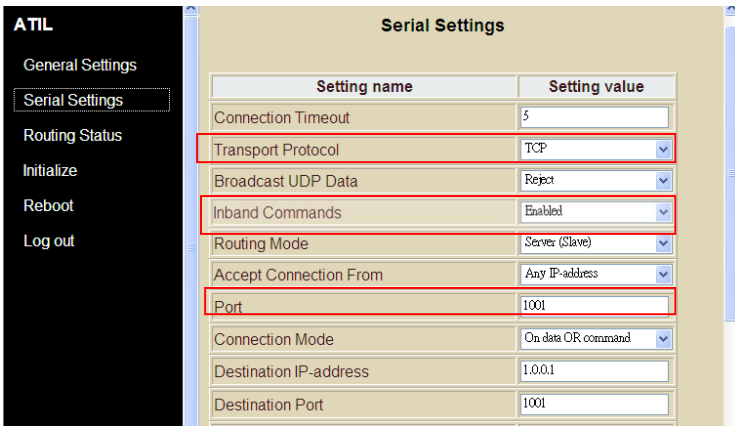


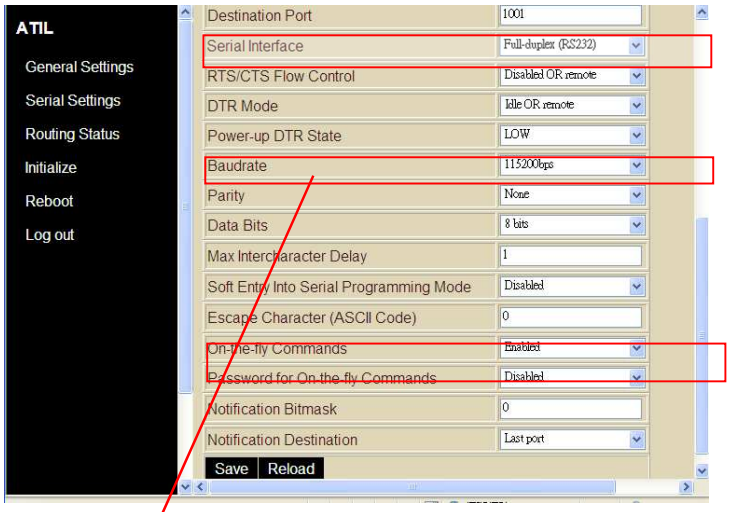
IP-address xxx.xxx.xxx.xxx configuration

OK Save

Serial Setting

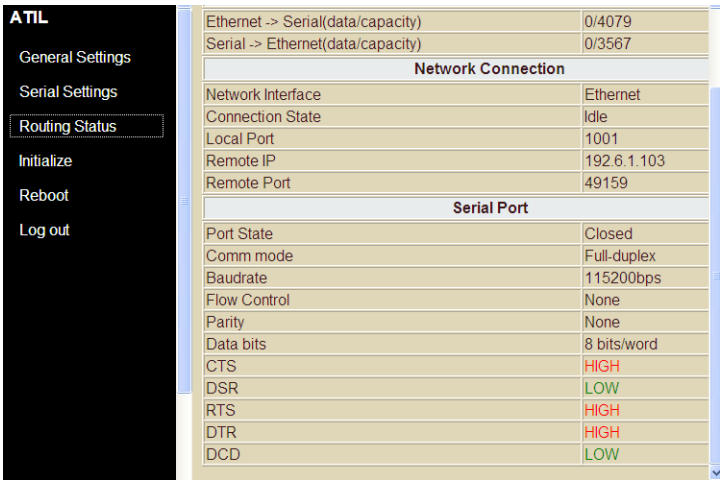
For Atil VSP Manager and TCP/IP (Winsock)

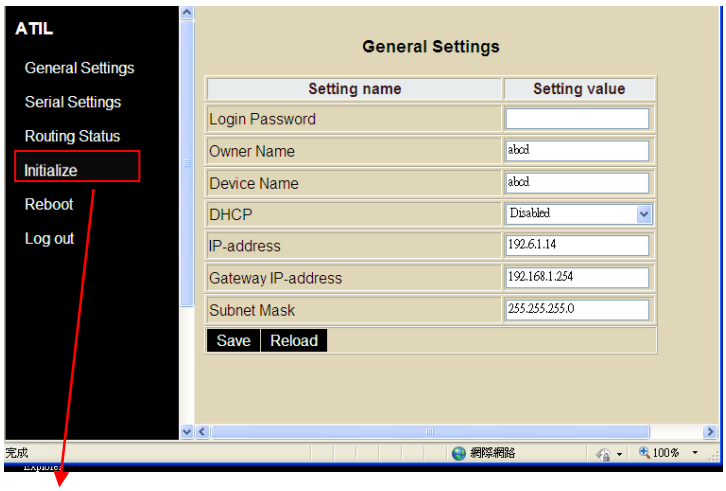




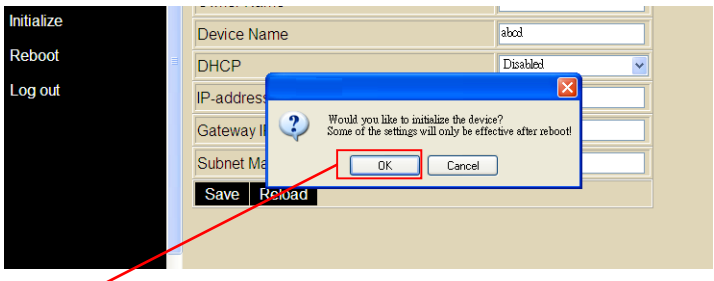
Power ON Initial Baud rate TCP/IP (Winsock) baud

Routing Status

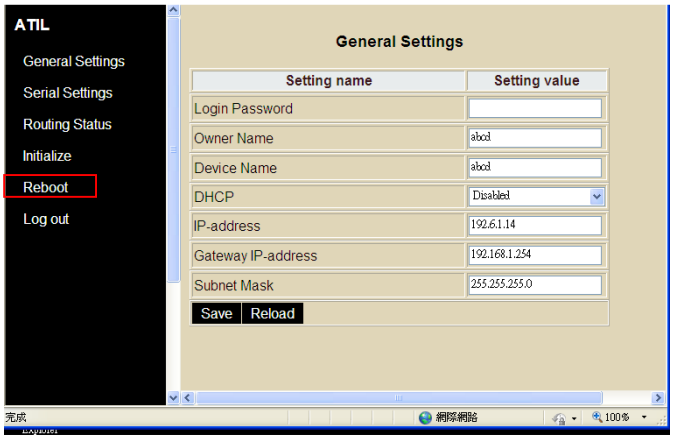




Initial factory setting
Password :
IP-address:192.168.1.1
Gateway-address :192.168.1.254



OK



Einführung *Deutsch*

Vielen Dank für den Kauf des LINDY IP Serial Servers mit dem Sie ein beliebiges RS232-Gerät an ein 10/100 Netzwerk anschliessen können. Er ermöglicht die Steuerung eines seriellen RS232-Gerätes oder das Auslesen von Daten eines Messgerätes über das Internet oder ein hausinternes Netzwerk.

Technische Spezifikation *Deutsch*

- Modus: Asynchrone, serielle Kommunikation
- Anschlüsse: D9 Buchse (RS232), RJ45 Buchse (10/100Mbit/s)
- 10/100Mbit/s, Auto MDI/MDIX
- Konfigurierbar über Webbrowser
- Unterstützt Voll- und Halbduplexmodus
- Baudrate bis 921,6 Kbit/s
- Für DIN Hutschienenmontage oder Desktop
- Inklusive 12V 1,25A Multi-Country Netzteil mit 1,4m DC Kabel und DC Stromadapterkabel (5,5/2,5mm an 3,5/1,35mm)
- 2 Pin Klemmblock 10-30V
- Stromverbrauch: 90mA@24VDC
- Unterstützte Betriebssyteme: Windows 2000 / XP / Server 2003 / Vista / Server 2008 / 7 (64bit) / 8 & 8.1

Lieferumfang *Deutsch*

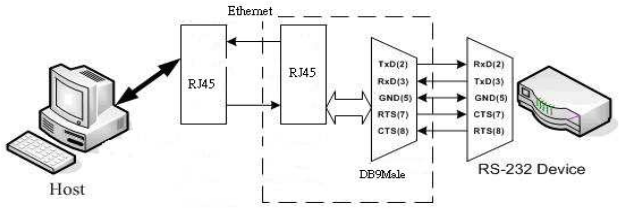
- IP Serial Server
- Multi-Country Netzteil 12V 1,25A, DC Stromadapterkabel
- Klammer für Hutschienenmontage
- CD mit Treibern
- Dieses Handbuch

Technische Spezifikation *Deutsch*

- Gateway, IP Adresse
- Betriebsmodi: VSP COM (Virtual Serial Port), TCP Server, TCP Client, UDP, Paired Mode
- Signale: TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND
- Fernsteuerung der RTS, CTS, DTR, DSR Protokolle
- Internationales EEPROM für Konfigurationsspeicherung
- Detaillierte Statusanzeige durch LEDs
- Konfiguration über seriellen Port oder Netzwerk
- HTTP, UDP Setup Tool (Management konfigurierbar)
- Echtzeit-Befehle für Konfigurationsänderungen des virtuellen, seriellen Ports
- Befehle vom seriellen Modem zur Kontrolle der Netzwerkverbindung
- Direkte Kontrolle von ADSL Modems
- Daten-Bits: 7, 8 – Stopp-Bits: 1,2
- Flusskontrolle: RTS/CTS, X-On/X-Off
- Parity: None, Even, Odd, Space, Mark
- Unterstützt HTTP, DHCP, ICMP (PING), statische IP-Adresse, ARP
- 1024KB Flash Speicher für Firmware, Anwendungen und Datenspeicherung
- 2KB EEPROM für Datenspeicherung
- 15 kV ESD-Schutz für den RS-232 Port
- Betriebstemperatur: -35°C ~ 70°C
- Feuchtigkeit: 5-95%, nicht kondensierend

Die “Virtual Serial Port”-Treiber für Windows erlauben den transparenten Zugriff auf den seriellen Port des Device Servers – genauso wie bei einem richtigen Com Port des PCs.
Dieser IP Serial Server unterstützt Standard TCP/IP und UDP/IP Protokolle. Öffnen Sie eine TCP/IP-Verbindung und tauschen Sie Daten mit dem seriellen Port Ihres Device Servers.

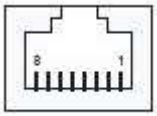
Installation *Deutsch*



D9 Pinbelegung:

NO	D9 Male
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	

RJ45:



PIN	
1	TX+
2	TX-
3	RX+
6	RX-

Werkseinstellung:

- Drücken des Reset-Knopfs für 5 Sek.
- Passwort: nicht erforderlich
- IP Addresse: 192.168.1.1
- Gateway Addresse: 192.168.1.254
- Subnetzmaske: 255.255.255.0

Softwareinstallation:

1. Suchen Sie auf der CD den 'RS232 Device Server'.
2. Öffnen Sie das Unterverzeichnis Ihrer Windowsversion (32 oder 64 Bit): 'Serial Device Server -<OS suffix>' ('OS suffix' bedeutet 'x86' für Windows 32 Bit und 'amd64' für Windows 64 Bit).
3. Starten Sie aus diesem Verzeichnis 'ATILDST<serial no.><OS suffix>.exe. Der Begriff 'serial no.' ist je nach Treiberversion verschieden.
4. Folgende Fenster öffnen sich:

"Licence Agreement" -> 

- "Choose Components", wir empfehlen "full" -> 

- "Choose Install Location", wir empfehlen die Einstellung beizubehalten -> 

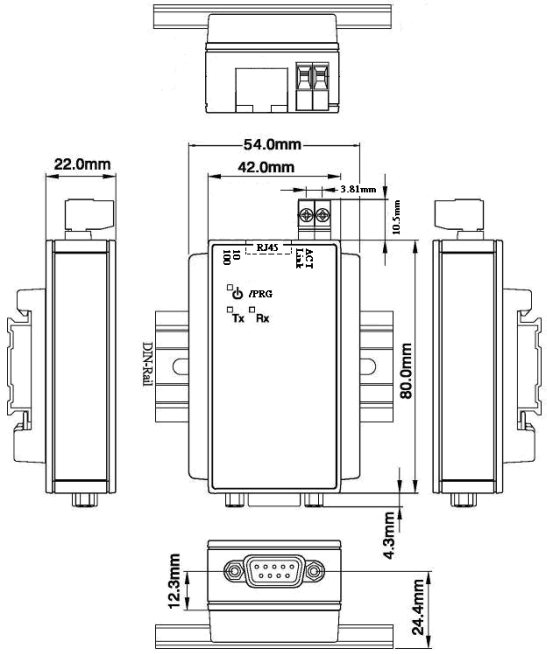
- "Completing the Atil Device Server Toolkit Setup Wizard" -> 

5. Nach der Installation kann "Atil VSP Manager" gestartet werden.

Konfiguration via Netzwerk

- Öffnen Sie den Browser und navigieren Sie auf http://192.168.1.1
- In den Werkseinstellungen wird kein Passwort verlangt – klicken Sie nur 'Login'.
- Nun können Sie weitere Einstellungen vornehmen.

Gehäuseabmessungen:



Detaillierte Informationen zur Treiberinstallation finden Sie oben im englischen Teil des Handbuchs unter der Überschrift „Application“.

Introduction Français

Merci d’avoir choisi le serveur IP pour rail DIN LINDY. Il permet la connexion de périphérique RS232 série au réseau Ethernet 10/100, permettant ainsi de contrôler un périphérique RS232 ou de lire les données d’un instrument de mesure possédant un port RS232 via internet ou d’un réseau local.

Caractéristiques Français

- Mode: communication sérié asynchrone
- Connectiques: 1x D9 M, 1x RJ-45 F (10/100 Mbit/s)
- 10/100 Mbit/s, auto MDI/MDIX
- Configurable via navigateur internet
- Modes port série full et half duplex
- Vitesse de transmission (Baud rate) jusqu’à 921.6 Kbit/s
- Pour montage sur rail DIN
- Alimentation multi-pays 12V 1.25A / câble DC 1.4m et câble adaptateur DC (5.5/2.5mm - 3.5/1.35mm)
- 2-pin terminal block, supports 10-30V power input
- Consommation: 90mA@24VDC
- Système d’exploitation pris en charge: Windows 2000/XP/Server 2003/Vista/Server 2008/Windows 7 (64-bit)/8 & 8.1

Contenu de la livraison Français

- Convertisseur LAN vers RS232
- Nécessaire de montage pour rail DIN
- Alimentation multi pays 12V 1A
- CD
- Manuel LINDY

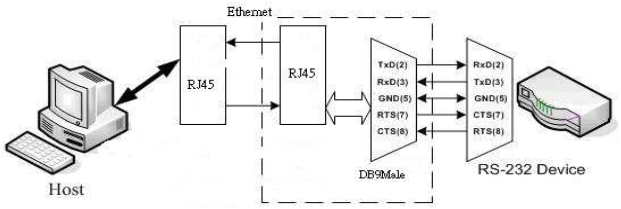
Specifications Techniques Français

- Passerelle, adresse IP
- Mode de fonctionnement: VSP COM (Virtual Serial Port), TCP Server, TCP Client, UDP, Paired Mode
- Signaux: TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND
- Contrôle distant de liaisons RTS, CTS, DTR et DSR
- EEPROM interne pour mémorisation de la configuration
- LEDs pour indication détaillée d’état
- Configuration par port série ou réseau
- Outils de configuration HTTP, UDP (gestion configurable)
- Commandes à la volée (“On the fly”) pour gestion intermédiaire de port série
- Commandes pour modems côté série pour le contrôle de connexions réseau
- Contrôle direct de modems ADSL
- Bits de données: 7, 8 - Stop Bits: 1,2
- Contrôle de flux: RTS/CTS, X-On/X-Off
- Paritée: None, Even, Odd, Space, Mark
- Prise en charge HTTP, DHCP, ICMP (PING), Static IP et ARP
- Mémoire flash 1024KB pour firmware, stockage application et données
- EEPROM 2Ko pour stockage de données
- Protection électrique 15 kV ESD port série RS-232
- Température de fonctionnement: -35°C ~ 70°C
- Humidité relative: 5-95%, sans condensation

Les pilotes Virtual Serial Port Drivers pour Windows vous permettent d’accéder de façon transparente au port série de votre appareil via le serveur comme s’il s’agissait d’un port COM sur votre PC.
Cet appareil série via IP prend en charge les protocoles TCP/IP et UDP/IP standard. Ouvre un socket et échange des données avec le port série du serveur IP directement.

Des informations détaillées concernant le brochage et l'installation sont disponible ci-dessus dans le document dans la partie anglaise du manuel, sous ''Application".

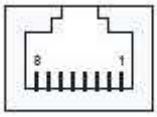
Installation — Français



Affectation des broches DB-9 femelle:

NO	D9 Male
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	

Connecteur RJ45:



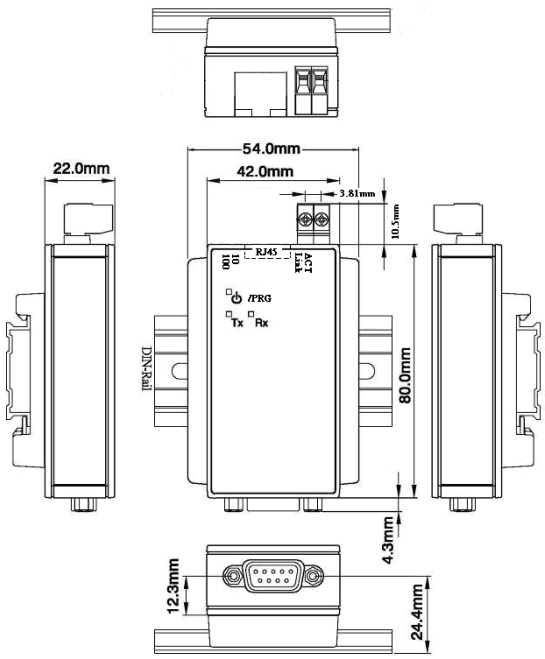
PIN	
1	TX+
2	TX-
3	RX+
6	RX-

5. Après finalisation de l'installation, du menu démarrer ou metro, le logiciel "Atil VSP Manager" pourra être lancer.

Configuration via réseau

- Ouvrez votre navigateur à l'adresse http://192.168.1.1
- La configuration par défaut ne requiert pas de mot de passe – cliquez sur 'Login'.
- Ajustez vos paramètres.

Dimensions du boîtier:



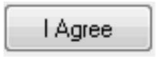
Configuration par défaut:

Connecteur RJ45:

Configuration par défaut:

- Bouton reset 5sec. pour réinitialiser la configuration
- Pas de mot de passe par défaut
- Adresse IP: 192.168.1.1
- Adresse passerelle: 192.168.1.254
- Masque de sous réseau: 255.255.255.0

Etapes de configuration–Logiciel:

1. Sur le CD de pilote allez dans le répertoire 'RS232 Device Server'.
2. D'après votre version Windows (32 or 64 Bit), ouvrez le sous répertoire ('Serial Device Server -<OS suffix>', où 'OS suffix' indique 'x86' pour Windows 32Bit et 'amd64' Windows 64Bit).
3. Dans ce répertoire, exécutez le fichier 'ATILDST<serial no.><OS suffix>.exe. Le terme 'serial no.' peut varier d'une version de pilote à l'autre.
4. La fenêtre suivante s'ouvre ensuite et exige votre intervention avant le démarrage de l'installation:
   - "Licence Agreement" -> 

   - "Choose Components", nous recommandons le choix "full" -> 

   - "Choose Install Location", nous recommandons de laisser la valeur par défaut -> 

   - "Completing the Atil Device Server Toolkit Setup Wizard" -> 

Introduzione — *Italiano*

Grazie per aver acquistato il LINDY IP Serial Server su Guide DIN. Questo dispositivo permette di connettere apparati seriali RS232 ad una rete Ethernet 10/100 per controllare o rilevare dati da Sistema di misura tramite rete o direttamente da Internet.

Caratteristiche Principali — *Italiano*

- Modalità Trasmissione: seriale asincrona
- Connettori: 1x D9 M, 1x RJ-45 F (10/100 Mbit/s)
- 10/100 Mbit/s, auto MDI/MDIX
- Configurabile via browser Web
- Modalità porta seriale Full e half duplex
- Baud rate fino a 921.6 Kbit/s
- Per montaggio su guide DIN
- Include un cavo di CC 12V 1.25A MC PSU w/1.4m e cavo adattatore DC (5.5/2.5mm - 3.5/1.35mm)
- Morsettiera a 2-pin per alimentazione, supporta tensione in ingresso da 10 a 30V
- Potenza assorbita: 90mA@24VDC
- Sistemi Operativi Supportati: Windows 2000/XP/Ser-ver 2003/Vista/Server 2008/Windows 7 (64-bit)/8 & 8.1

Contenuto della confezione — *Italiano*

- Convertitore LAN a RS232
- Staffe di montaggio
- Alimentatore Multi-Country 12V 1A
- CD
- Manuale LINDY Manual

Specifiche Tecniche *Italiano*

- Gateway, Indirizzo IP
- Modalità Operative: VSP COM (Virtual Serial Port), TCP Server, TCP Client, UDP, Paired Mode
- Segnali: TXD, RXD, RTS, CTS, DTR, DSR, DCD, GND Controllo remoto delle linee RTS, CTS, DTR e DSR
- EEPROM interna per salvataggio della configurazione
- Indicazione stato dettagliato tramite LED
- Configurazione tramite porta seriale o rete
- Strumento di setup HTTP, UDP (gestione configurabile)
- Comandi “On the fly” per cambiamenti della configurazione della porta seriale durante il funzionamento
- Comandi Seriali Modem per controllo della configurazione della rete
- Controllo diretto di modem ADSL
- Data Bit: 7, 8 - Stop Bits: 1,2
- Flow Control: RTS/CTS, X-On/X-Off
- Parità: None, Even, Odd, Space, Mark
- Supporta HTTP, DHCP, ICMP (PING), Static IP e ARP
- 1024KB flash per firmware, applicazioni e memorizzazione dati
- 2KB EEPROM per memorizzazione dati
- Protezione ESD 15 kV ESD per la porta seriale RS-232
- Temperatura Operativa: -35°C ~ 70°C
- Umidità: 5-95%, non condensata

Il driver Windows per porte Seriali Virtuali vi permette di accedere in maniera trasparente alla porta seriale remota come se fosse una porta COM reale del vostro PC
Questo dispositivo supporta i protocolli di rete standard TCP/IP e UDP/IP. E’ possibile aprire un socket e scambiare dati direttamente con il vostro server seriale.

Legal Statements

Shielded cables must be used with this equipment to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

CE Statement
This equipment complies with the requirements relating to electromagnetic compatibility, EN55024 and EN55022 for ITE. It has been manufactured under the scope of RoHS compliance.

FCC Warning
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Recycling Information

WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

United Kingdom
In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. It is no longer permitted to simply throw away electrical and electronic equipment. Instead, these products must enter an environmentally friendly recycling process.
Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products. More details can be obtained from your national WEEE recycling agency.

Deutschland
Die EU hat mit der WEEE Direktive Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Das Entsorgen von Elektro- und Elektronikgeräten über die Hausmülltonne ist verboten! Führen Sie Ihre alten Geräte den lokalen Sammelsystemen oder örtlichen Sammelstellen zu! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess sowie die optimierte umweltgerechte Wiederverwendung der Rohstoffe übernimmt die Gesamtheit der Gerätehersteller.

France
En 2006, l'union Européenne a introduit la nouvelle réglementation (DEEE) pour le recyclage de tout équipement électrique et électronique.
Chaque Etat membre de l’Union Européenne a mis en application la nouvelle réglementation DEEE de manières légèrement différentes. Veuillez suivre le décret d’application correspondant à l’élimination des déchets électriques ou électroniques de votre pays.

Italy
Nel 2006 l’unione europea ha introdotto regolamentazioni (WEEE) per la raccolta e il riciclo di apparecchi elettrici ed elettronici. Non è più consentito semplicemente gettare queste apparecchiature, devono essere riciclate.
Ogni stato membro dell’ EU ha tramutato le direttive WEEE in leggi statali in varie misure. Fare riferimento alle leggi del proprio Stato quando si dispone di un apparecchio elettrico o elettronico.
Per ulteriori dettagli fare riferimento alla direttiva WEEE sul riciclaggio del proprio Stato.

LINDY No. 42721
www.lindy.com
3rd Edition JUN 2015