



ESERV-10



# Embedding the Internet™

ESERV-10 is a groundbreaking solution that connects your installed base of assets into today's digital information networks. Leveraging the Internet, ESERV-10 brings clear cost advantages by defining new and innovative means for device configuration, control and upgrade. What is more, the solution enables companies to develop and deliver fresh value-adding services to their customers.

Real-time communication and efficient information sharing is a necessity for successful business. Viola offers the ESERV-10 solution to network existing assets - be it devices, machines or even buildings - and thus enables you to deliver the most value out of the assets.

The ESERV-10 device server leverages the Internet to seamlessly in-

tegrate assets to existing digital network infrastructures. This enables the assets to collaborate with people and each other in a new manner.

Thanks to this **connectivity**, you are able to communicate with the assets from anywhere at any time. This revolutionizes the way the assets can be operated, controlled,

configured and upgraded - realizing into significant reductions in operational costs.

Viola has paid careful attention to customer needs when designing ESERV-10. The solution is built to offer **transparent connection** between a serial device and Ethernet without the need to modify the existing design of the device.

Additionally, the solution adds in **several intelligent features** to make life easier. For example, the assets can be made to read and send e-mail. Embedded web server, serving also Java applets, allows rapid development of easy to use graphical user interfaces for purposes of configuration and operation of device servers and assets. Enhanced data security features are

included. ESERV-10 is also coupled with state-of-the-art software to facilitate the effortless management of entire asset portfolios.

Viola acknowledges that fast execution is the key to success in business. This is why ESERV-10 requires **minimal effort in adoption**.

As a result of combining unique resources and capabilities, Viola is one of the best candidates for a **long-term partner**. The Viola people work every day to help you to lever the most value out of your assets.

# Plug your portfolio of assets to the Internet. And play.

## Key Features

- Entry-level Internet access technology for your installed base of products
- Instant Internet connectivity with minimal effort in adoption
- Transparent connection between a serial device and Ethernet
- Automatic or manual e-mail send and read
- Available as a PCB module in bulk and starter kit package

## Three Operating Modes

To make ESERV-10 suit a wide variety of applications, Viola has designed three different operating modes, each of which put emphasis on a particular functionality.

First, ESERV-10 is able to operate as a serial device server in both server and client modes.

Second, ESERV-10 functions through sending and receiving e-mail by using SMTP and POP3 protocols - either automatically or manually.

Third, the device server operates automatically and its remote control can be easily performed over the network or locally by using AT-commands.

management, e-mail as well as for uploading HTML and Java to the servers. For the smooth installation of the device servers, Viola provides user interface programming examples alongside the software.

## Virtual COM for Windows®

This is a driver software for transparently redirecting serial port communications from PC-applications to remote device servers, and vice versa. This software allows you to continue using existing applications that are based on serial communication. The difference is that the device can reside on the other side of the globe, if needed.

## Software Tools

### Viola Configurator™ for Windows®

This is a software tool that facilitates the flexible and effortless configuration of the device servers - either one-by-one, all at once or something in between. Viola Configurator™ includes functions for IP address

## Contact Us Today

To obtain the latest information, please visit our website at [www.violasystems.com](http://www.violasystems.com). You can order our products – through the website, sending e-mail to [sales@violasystems.com](mailto:sales@violasystems.com), or calling us – the way most convenient just for you.

## Key Specifications ESERV-10

### Network Protocols

ARP, IPv4, ICMP, UDP, TCP, HTTP, BOOTP, TFTP, POP3, SMTP, DHCP, DNS

### Network Interface

Ethernet 2.0/IEEE 802.3  
RJ45 Ethernet connector (10Base-T)  
Pre-programmed MAC-address

### Device Interface

Serial port RS232, RS422, RS485 (asynchronous)  
Male DB9 connector  
Variable baud rate 1200-38400 bps

### Serial Line Formats

Data bits: 7 or 8  
Stop bits: 1 or 2  
Parity: even, odd, none

### Serial Communication Protocols

Customised protocols are available  
AT-command support

### Flow Control

CTS/RTS

### Management and Security

Web browser  
Serial login  
Telnet login

### System SW

Updateable over serial port

### Web pages and Java applets

Updateable from TCP/IP host or over serial port  
HTTP server

### Diagnostic LEDs

Good link  
Activity

### Power Requirements

7-24V DC, less than 200 mA

### Operating temperature

0 to 70°C (32 to 158°F)

### Humidity

5-95%, non condensing

### Physical Dimensions

Size: 65 mm x 75 mm x 27 mm  
(2.559 x 2.953 x 1.063 in)  
Stainless steel cover

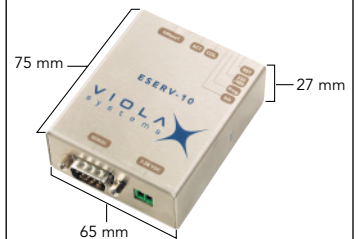
### Mounting

Wall mount plate (stainless steel)

### Accessories

DIN-rail attachment clip  
100-240VAC power supply

## Dimensions



## Ordering Information

### ESERV-10

Order code 2100 (EU)

### ESERV-10 Starter kit

Order code 2149 (EU)

### Ordering Address

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