

SV TEHS SIA

Development Tools for Java™

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**IPVES Application Note 08:**

**ADC show**

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## **IPJV-ES Application Note 08: ADC show**

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**V 1.0**

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## Introduction

*IPJV-ES Development Board can be used in different applications.*

The IPJV-ES Development Board with embedded virtual machine for Java™ offers an Ethernet based connection to the Internet and numerous interface possibilities to other equipment, include serial RS-232 DTE interface, serializer module with UART, SPI, GPSI and 10BASE-T Ethernet support, 6-channel 10-bit A/D inputs, analog comparator and 16 I/O pins.

The IPJVM virtual machine for Java is a clean room implementation, that has been specially optimized to run on device with limited amount of internal memory and designed for Java™ 2 Platform, Micro Edition (J2ME™) Connected Device Configuration (CDC) Foundation Profile.

A complete development toolkit available for application development with IPJVM platform. The IPJVM platform provide system designers and software developers simple, flexible and cost-effective solution for embedded Internet application rapid development and prototyping. The platform is combination of Uvicom IP2022 Internet Processor and a Java programmable runtime environment.

The IPJV-ES Development Board based on Uvicom IP2022 Internet Processor, optimized for Internet-edge applications. It handles protocol processing in software instead of in hard-wired logic, making the whole solution more adaptable to evolving standards and allow designer to use the same solution across a wide variety of internet-edge products simply by changing the software, thereby significantly reducing nonrecurring engineering (NRE) costs.

Typical IPJV-ES applications include Includes HTTP/FTP/SMTP/SNMP/Telnet servers, PPP support on embedded UARTs, encryption, security and authentication tools, reporting and alarming via e-mail, remote monitoring, control, management and maintenance.

## Updates

New versions of the IPJV-ES software and applications can be obtained from the manufacturer's web site at:

<http://www.svtehs.com/ipjv.htm>

## ADC show

*Showing analog inputs on the terminal.*

**T**his simple application show all analog inputs on the system output. By default `System.out`, `System.err` and `System.in` assigned to the first instance of the serial interface RS232.

```
import jbvm.ip2k.*;
class AdcShow
{
public static void main(String[] args)
    {
    int    adres,i;
    AdcIO.setExtRef(false);
    while (true)
        {
        for (i=0;i<8;i++)
            {
            adres=AdcIO.readValue(i);
            System.out.println("Line RG"+i+" value "+adres);
            }
        try { Thread.sleep(250); } catch (InterruptedException ie) {}
        }
    }
```

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