



## U800 Field Device Gateway

The DSA U800 Gateway gives modern control systems convenient access to a wide variety of remote data gathering equipment without involving them in the details of device behavior and communication protocols. Instead, it appears to the host system that all the devices speak its language, usually a modern protocol such as DNP3. The remote side of the gateway accesses the devices in their native protocols over existing communication links, without any modifications; though it is easily reconfigurable to track communication upgrades as they occur. Furthermore, all the remote devices appear to have the modern facilities implied by the host protocol, such as data-by-exception, multiple change detection and time tags.

The U800 fits naturally into the architecture of modern systems by connecting to the local network and serving as a gateway/server. It is packaged in a slim, rack mountable enclosure and can be stacked with similar communication equipment of the host system. It is ideally suited to upgrade situations where the central control system is being replaced, because it can pick up all of the old field devices and completely avoid the cost of trying to map their peculiarities into the new system.

Some of the outstanding capabilities of the U800 are:

- Supports 8 channels (lines) each running a different communication protocol
- Supports multiple devices on the same line (party lines)
- Can mimic the old system's polling regimen for each device
- Supplied with a Host Simulator program that greatly aids the integration process
- Easily reconfigured in the field via the Host Simulator

The **U800** incorporates modern computer technology and electronic design techniques to provide an extremely versatile gateway with high reliability and superior maintainability.

### **Features:**

- Incorporates industry standard PC/104 processor and I/O modules.
- Extensive hardware and software configuration options available – assuring the most cost/performance effective solution.
- A suite of legacy Bit or Byte oriented data communication protocols are available.
- Suitable for harsh operating environments

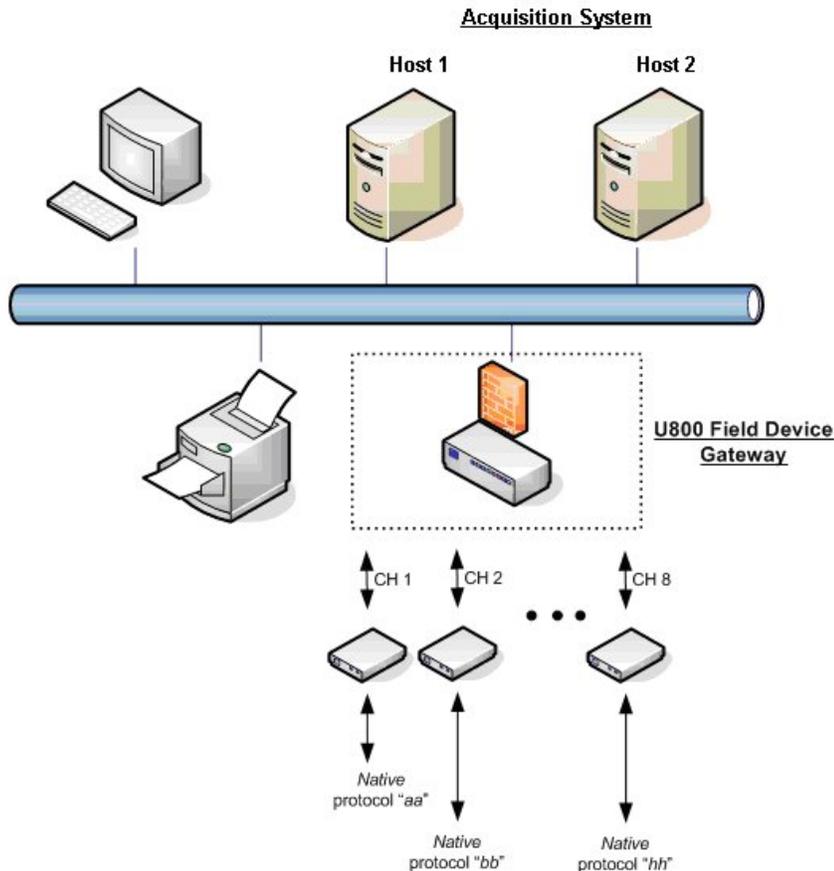
### **Application:**

- Suitable for applications requiring the transparent integration of legacy field devices into a modern data communication network/system.
- Applications include electric power acquisition and control systems, oil & gas pipelines, water/ waste water systems, air quality monitoring systems, etc.

## Specifications:

- Industry standard PC/104 processor platform
  - 32 bit 80586 processor
  - 16MB SDRAM (Optional: 32MB/ 64MB/ 128MB)
- Network data communication interfaces:
  - 100/10Base-T
  - RS232C
- Up to 8 data communication channels to field devices
- Real-time Operating System
- Power: 5VDC @ approximately 3 Watts
- Operating temperature: -25°C to +70° C
- Enhanced Temperature (Optional): -40°C to +85° C
- Mounting:
  - Enclosure
  - 19" Rack mount
  - Panel mounted

## Application: Field Device Gateway



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