

Ethernet Serial Servers

Industrial Serial Device connectivity over Ethernet



ESS1

- Extensive experience within SCADA telemetry applications
- Allows multiple host poll/response connection to same serial network without conflicts
- Bi-directional communication to any connected host
- PPP connectivity (including dial back-up)
- Full radio hand-shaking with configurable warm-up and warm-down
- Remote diagnostics and configuration
- Check out the Pervasive Solutions section of our website

The Ethernet Serial Server (ESS) enables communication connectivity to almost any serial device over Ethernet networks such as the internet, intranets, LANs, WANs and dial-up network systems. The ESS allows serial devices to be monitored and maintained without incurring the cost of replacing existing equipment.



ESS2

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The ESS simplifies the job of communicating with digitally monitored devices throughout industrial plants or to remote application devices that currently only talk serially to a dedicated PC or control panel. The connection is made simple and easy for fast implementation requiring little to no expertise to link the serial device on-line. Through a simple menu configuration setup tool, the ESS is assigned an IP address for the RJ-45 Ethernet port and the baud rate is set for the serial port connecting to the field device. Once configured, multiple applications utilizing TCP/IP networking tools can communicate over various digital networks to the once isolated serial device.

There are two product offerings, the ESS1 and ESS2 with different product capabilities described below in the technical specifications

Specification	ESS1	ESS2
Architecture	Single board	PC/104 bus
Processor/clock speed	Intel®386EX CPU @ 25MHz	Intel 386EX CPU @ 25MHz
Operating system	APEX	APEX
Configuration	ACE (Arcom Configuration Environment)	ACE (Arcom Configuration Environment)
Size	2.272" x 5.75" x 4.5"	3.188" x 4.125" x 6.5"
Mounting	Panel mount	Panel mount
Memory	1Mbyte Flash	1Mbyte SRAM with battery back-up and 1Mbyte Flash
Watchdog	Yes, software	Yes, hardware with start-up or software trigger
Communication ports	One 10BaseT, two RS232, and one RS485	One 10BaseT, three RS232, and one RS232/RS485 selectable
Protocol	Multiple protocol support (refer to protocol page)	Multiple protocol support (refer to protocol page)
Power	12Vdc nominal (8-18Vdc)	24Vdc nominal (18-36Vdc input range)
Power consumption	3.5W (maximum)	3W (maximum)
Operating temperature	-20 to +60°C	-40 to +70°C at 25MHz
Humidity	0 to 95% relative, non condensing	0 to 95% relative, non condensing
Input/output	None	None
Diagnostics	Serial MMI or Telnet	Serial MMI or Telnet
Networking	TCP/IP (RJ-45 10BaseT Ethernet and/or serial PPP)	TCP/IP (serial PPP) RJ-45 10BaseT Ethernet
Calendar/clock	RTC with battery back-up	RTC with battery back-up

Check our website for more details

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