



DS100 Serial Device Server



EM100 Ethernet Module



In less than 5 year's time the number of Devices and Appliances connected directly to the TCP/IP networks including the Internet will exceed the number of "human" terminals. Everything is going to be on the Global Network!

To stay competitive in this new era it is no longer enough for you to build new Products based on a simple serial interface.

Giga-TMS is there to help! Our DS100 Serial Device Server and EM100 Ethernet Module provide the fastest and the most economical way to connect any serial device to the 10BaseT Ethernet (TCP/IP) network.

- External Device, connects your Serial Equipment to the Ethernet
- Stylish and robust, suitable both for office and industrial environment

- Board-level component, adds an Ethernet port to your Serial Device
- Very compact and highly integrated, only requires external connector (RJ45)

Common features of the DS100 and EM100

- Support both UDP/IP and TCP/IP communications protocols
- Flexible, have many adjustable functioning parameters
- Fully compatible with each other
- Supplied with **Device Server Toolkit** software for Windows including:
 - **Virtual Serial Port Manager** to create any number of Virtual Serial Ports on the PC
 - **Device Server Manager** to edit the Settings of the DS100 and EM100 via the network
 - **Connection Wizard** to quickly link DS100s (EM100s) to Virtual Serial Ports and each other
 - **Virtual Serial Port Monitor** to log the activity of Virtual Serial Ports

Three ways to use the DS100 and EM100

COM redirection. Use our Virtual Serial Ports to trick your original PC software into thinking that your Serial Device is still attached to the PC's COM port. Virtual Serial Port acts as a standard serial port but in reality transparently reroutes the serial data via the TCP/IP network to the DS100 (EM100) and the Serial Device "behind" it. This way you can continue using your "serial" PC software without any modification.

Direct communications. Use industry-standard UDP/IP and TCP/IP protocols to exchange data with the DS100's (EM100's) serial port.

Virtual Serial Link. Use two DS100s (EM100s) to create a transparent serial connection over the TCP/IP network. This link will work just like an ordinary serial cable.

Specifications

Parameter	DS100R	EM100
Serial Interface	RS232*	TTL, supports RS232* and RS485
Network Interface	10BaseT Ethernet	
Supported protocols	TCP, UDP, ICMP (ping), ARP	
Power	12VDC, 150mA max	5VDC, 70mA max
Operating conditions	0-55°C, 10-90% relative humidity	
Dimensions	95mm(L)x57mm(W)x30mm(H)	46mm(L)x28mm(W)x13mm(H)

* Supported interface signals: RX, TX, CTS, RTS

* RS422 and RS485 interfaces are to be supported in Q2 2002

Ordering information

DS100R	"Bare" DS100R without any accessories
DS100R-KIT	DS100R with all cables, power adaptor, and CD
EM100	"Bare" Module
EM100SK	Starter Kit including EM100, test PCB, cables, power adaptor, and CD