



## CROSS-PORT RS232 MATRIX SWITCHER

The CrossPort is a versatile multi-port multiplexer utilising ASIC technology to provide efficient high speed data throughput. It implements a full 17 port non-blocking cross-bar together with a pass-through expansion port and two command/control ports that may be used for configuration or monitoring purposes.

In its default configuration it may be viewed as an array of 16 DCE configured, PC compatible RS232 TERMINAL ports (P1-P16) that may be routed to a single DTE configured DOWNLINK/MODEM port. Multiple units may be connected together, either in a daisy chain using the DCE configured UPLINK/EXPANDER port, or in a tree using any or all of the 16 terminal ports. Full four wire handshake and carrier detect is supported on all terminal and modem ports (ie Tx, Rx, RTS, CTS, DTR, DSR, DCD).

Optionally, ring indicator (RI) may also be supported (specified at time of order).

Operation may be either standalone, where one of a number of pre-defined sequences of actions will be performed repetitively, or as a slave to a master computer. As a slave the CrossPort hardware supports configuration from a dedicated CONTROL port, with a daisy chain pass through to the CONTROL THRU port.

When configured by external command, the full crossbar facility becomes available. Operations are controlled by selecting the source port that a given port is to "listen" to. More than one port may listen to the same source port allowing global broadcasts to any or all other terminal ports. Though the device is configured by default as a 16:1 modem/pc multiplexer any number of the other ports may also be attached to modems/pcs (e.g. 15:2, 13:4 etc). If the flash memory option is fitted the desired configuration and sequencing may be user programmed and then the device returned to standalone mode.

Front panel indicators provide basic readback of status (POWER, ACTIVITY).

A manual configure and display assembly is available as an option if required for fully autonomous applications.

All ports are fully RS232 compatible and are protected to moderate overvoltage conditions. Optionally, full overvoltage clamps may be specified at the time of order for full protection under noisy conditions.

The unit is supplied as standard in an ABS case with external switched-mode power supply. For larger installations, rack-mounted or other free standing configurations may be available on request.

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