

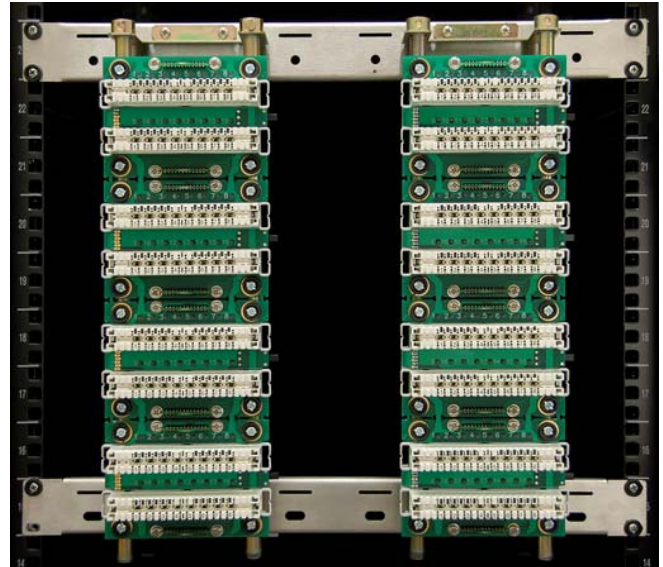


Telephone Line Monitoring

Zebra E1/T1

Telephone line Monitoring Zebra E1-T1

The Zebra E1/T1 gateway is designed to monitor up to 128 uni-directional E1/T1 inputs. Some applications require the Zebra gateway to terminate the monitored E1/T1 inputs, for example: active connections to switches (e.g.: ETSI LI) or in satellite monitoring systems. Other applications require the Zebra gateway to passively tap carrier connections between switches. In the second type of application it is important to ensure that the Zebra gateway remains invisible to the monitored network, and that it never interferes with the signals on the monitored carriers, for example: when powering up or down.



The Zebra E1/T1 coupler is designed to connect large numbers of monitored carriers to the Zebra E1/T1 gateway. Punch-down disconnection blocks provide a robust connection to the input pairs as well as cable management. It is possible to connect to active carriers without cutting the wires.


Optional hi-z buffering modules can be mounted behind the coupling modules. The function of the hi-z buffer is to prevent signals from flowing from the Zebra gateway to the monitored network. The hi-z buffer consists of a single printed circuit board with a smaller profile than the coupling board. Hi-z buffering therefore does not require any additional rack space. Disconnection tabs allow each block of 8 input pairs to be disconnected from the monitored carriers.

When hi-z buffers are used an optional signal indication module can be fitted. One LED is mounted above the disconnection block for each wire pair and indicates the signal status of that monitored carrier pair, for example: active connection with no alarms – green; alarms present – red; etc. The status indication module consists of a single printed circuit board mounted behind the coupling and buffer modules. It has the same profile as the hi-z buffer board and requires no additional rack space.

The Zebra E1/T1 coupler, hi-z buffer and signal status indication modules can be used independently of the VASTech Zebra E1/T1 gateway.

Specifications

Coupling module (can be used standalone)

Dimensions	Each complete 19" rack mount assembly consists of 2 brackets with rod mounting profile and 2 carrier coupling modules. Height: 9U
Capacity and monitored cable type	2 × 64 twisted pairs – equivalent to the full capacity of 128 E1 inputs of one Zebra gateway. A version for coaxial carrier inputs will be available by 2007Q1
Connection blocks	Krone disconnection blocks. 8 pairs are connected on each block
Connection tool	Krone insertion tool 
Connectivity to gateway	For every 16 input pairs: 1 × DB44 male connector with 32 pins connected
Power	No power required

Buffer module (optional, requires coupling module)

Dimensions	Fits behind coupling module
Capacity	Same as coupling module
Carrier impedance	120Ω Versions for 75Ω and 100Ω will be available by 2001Q1
Return signal attenuation	Any signal flowing from the buffer to the monitored carrier will be attenuated by at least 20dB
Disconnection from monitored carriers	Each block of 8 input pairs can be disconnected from the monitored network by the removal of a disconnection tab
Power	No power required

Signal status indication module (optional, requires coupling module)

Dimensions	Fits behind coupling module
Capacity	Same as coupling module
Power	1 × DIN rail-mounted 110V/240V transformer for each complete assembly. Input current 0.75A



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