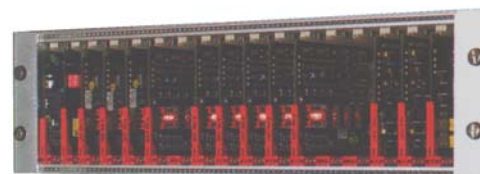


Digital ISDN SL700 Central Node

The SL700 is a fully featured solid state digital central node designed to switch up to forty eight Mentor Digital Intercom Outstations



ISDN technology enables non blocking speech capability i.e. up to 24 simultaneous communications and elimination of complex, costly multicore field cable networks. The SL700 node is fully P.C. configurable allowing a vast range of system connection options and is fully networkable to up to a maximum of one hundred and twenty central nodes realising an ultimate Mentor system capacity of more than five thousand Mentor intercom outstations.

The SL700 comprises of an industry standard 3 unit high 19inch rack mount shelf which carries highly integrated surface mount technology printed circuit modules which are arranged to plug in/out for rapid, convenient service.

The central is equipped with the following hardware:

SL700 motherboard carries Eurocard indirect connectors for plug in/out modules (total seventeen) GEN700 power supply card - this carries programming socket to allow connection of an IBM compatible computer for re-configuration possibility.

GED700 processor card carries operating system slots 1-12 accommodate subscriber card GED700 which can each support four Mentor digital intercom stations.

The remaining slots are assigned A to C which accept the following optional hardware:

GEN 700 connection card allows digital extension to a further seven local SL700 nodes for expanded system requirements.

G700/8E8A input/output card allows importation of eight volt free input contacts and eight volt free relay contact outputs. Cause and effect dependant on SL700 node configuration.

G7 - CNEIW network card allows connection of up to one hundred remotely located SL700 node centrals. A single twisted pair of conductors interconnects SL700 nodes and supports up to twelve simultaneous conversations over line lengths up to 2 kilometres (increased line lengths to 4 Km with attendant reduction in speech channel capability).

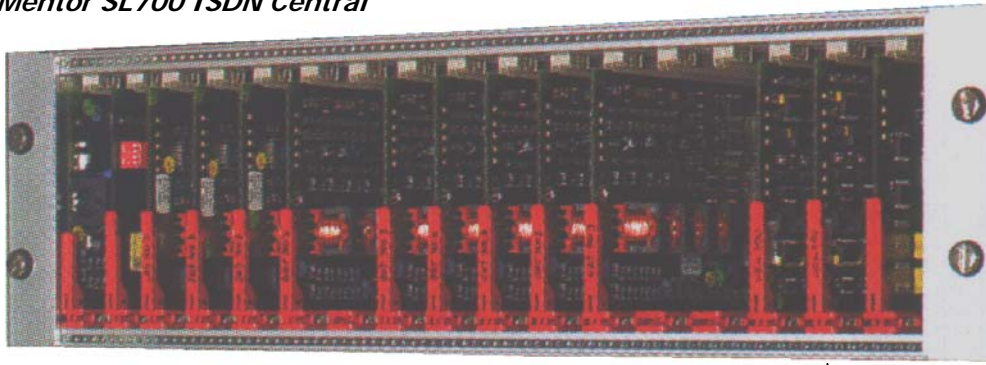
GTEL telephone interface card allows the Mentor intercom package to be directly connected to the site telephone system.

Connections from node motherboard to field outstation wiring is effected by insulation displacement flat ribbon cable and termination hubs which facilitate field conductor sizes of up to 2.5mm² CSA. The SL700 as standard is supplied in a low profile industrial wall mount 19 inch cabinet type SL700R alternatively the node maybe incorporated as part of an ACE16 or 100 Public Address cubicle.

The central node is equipped with a converter when energisation from A.C. mains supply is required. Additional capacity is available to allow the Mentor digital outstations to be also energised from the host node power supply subsystem.



Mentor SL700 ISDN Central



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