T9100 Base Unit Specification

Table 24 - T9100 Processor Base Unit Specification

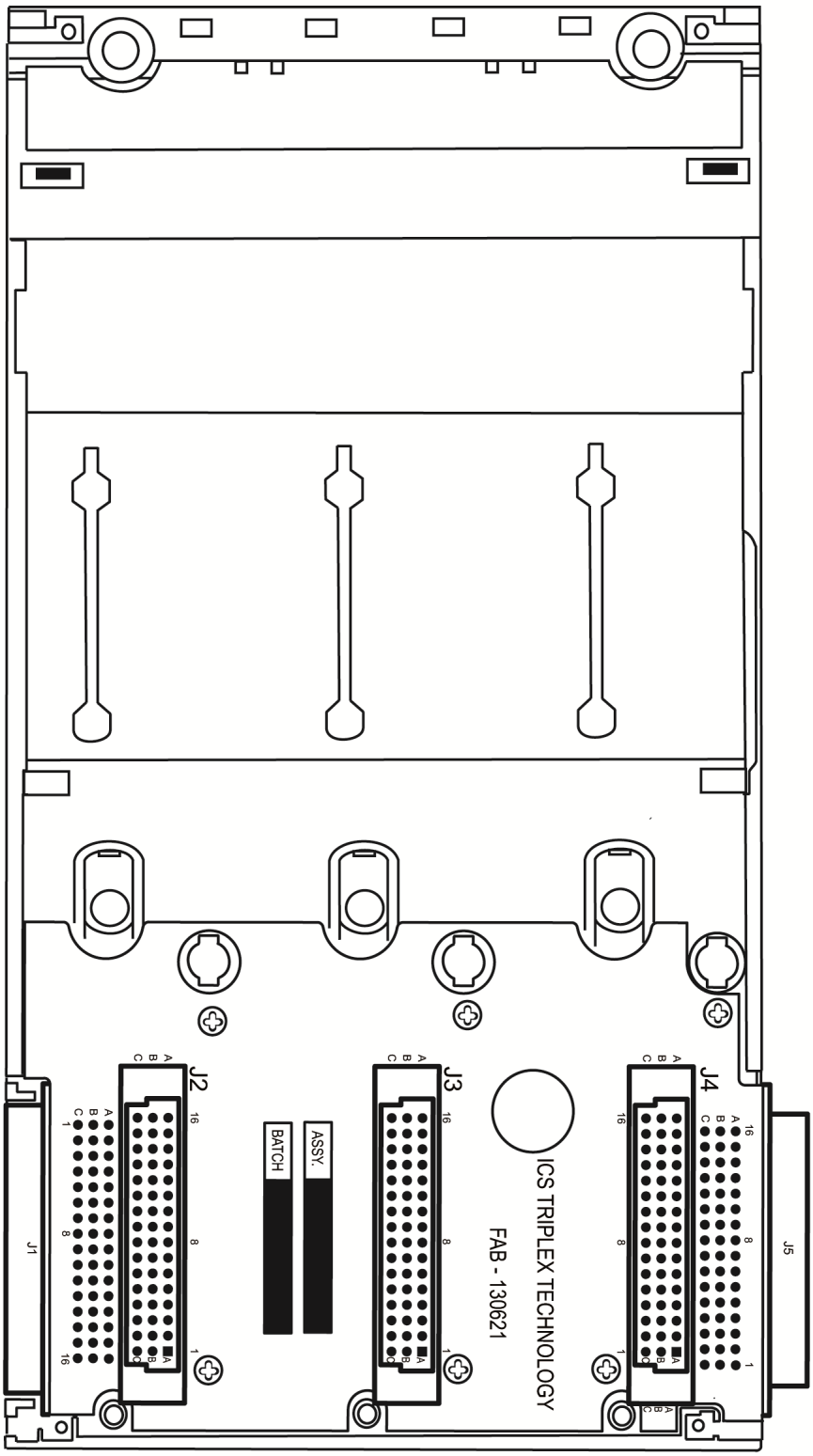
Attribute	Value
Electrical Specification	
Supply voltage requirements	Redundant + 24 Vdc nominal; 18 Vdc to 32 Vdc range
Number of processor modules supported	1, 2 or 3
Number of I/O base units supported	16: 8 for each I/O bus
E1-1, E1-2; E2-1, E2-2; E3-1, E3-2	Connectors for Ethernet Ports 1 & 2 for Processor A, B and C Wiring: shielded RJ45 sockets according to IEC6063-7, 2- or 4-pair shielding
S1-1, S1-2; S2-1,S2-2; S3-1, S3-2	Connectors for Serial Ports 1 & 2 for Processor A, B and C Wiring: Six 5-way connectors; maximum 1.31 mm^2 (16 AWG), Stripping length 7 mm (9/32 in.)
PWR-1, PWR-2	Connectors for Redundant +24Vdc Power Supplies. Wiring: Two 3-way connectors, Conductor cross section maximum 3.3 mm^2 (12 AWG); Stripping length 7 mm (9/32 in.)
FLT	Not used
KEY	Connector for the Program Enable Key
Mechanical Specification	
Dimensions (height × width × depth)	235 mm x 126 mm (9 1/4 in. x 5 in.)
Weight	460g (16 oz.)

T9300 I/O Base Unit (3 way)

The AADvance controller has T9300 I/O base units for the I/O modules. An I/O base unit supports a maximum of three I/O modules (of any type), and their related termination assemblies. Each base unit can be mounted onto standard DIN rails or directly onto a panel or wall. The moldings use slots and clamps for DIN rail mountings, and holes for screw fixing.

It contains a passive backplane that supplies the electrical connections between the I/O modules and the T9100 processor base unit; i.e. the command and response buses and the system power.

Figure 28 - I/O Base Unit



The bus and power connections from the processor base unit go into the backplane at the left connector and are routed direct to the module connectors. The backplane has a connector at the right for the next I/O backplane. The

connection to the left of the backplane can connect to a processor base unit or another I/O base unit.

Adjacent base units clip together and are held in position by a plastic retaining clip. Alternatively rows of I/O base units can be connected together using a T9310 expansion cable assembly.

T9300 Base Unit Specification

Table 25 - T9300 Base Unit Specification

Attribute	Value
Electrical Specification	
Supply voltage requirements	Redundant + 24 Vdc nominal; 18 Vdc to 32 Vdc range (from Processor Base unit)
Physical Specification	
Number of I/O modules supported	1, 2 or 3
Command busses	One
Response busses	24
Buses per system	2
Base units per bus	8
I/O Modules per bus	24 individual modules (not counting grouping) (e.g. 12 dual or 8 triple module groups)
Mechanical Specification	
Dimensions (height × width × depth)	235 mm x 126 mm (9 1/4 in. x 5 in.)
Weight	133 g (5 oz.)

T9310 Expansion Cable Assembly

The T9310 expansion cable assembly connects a T9300 I/O base unit to a different I/O base unit or to the T9100 processor base unit. The assembly consists of a cable, terminated by multi-way plugs, and a pair of adaptors.

One end has a cable socket assembly and the other end a cable plug assembly that connects to the right-hand bus connector of an I/O base unit or to I/O Bus2 (the left hand connector) of a processor base unit. The socket connects to the left-hand bus connector of an I/O base unit.

The expansion cable offers the following features:

- Two meter cable length
- Secured with retaining screws and screw cap screws
- Connects all command and response signals and system power
- Screened to decrease resonance emissions