

ESP300, ESP301

Transition Modules for MOTOROLA CPUs

Adapter for MVME177, -167, -162, -147

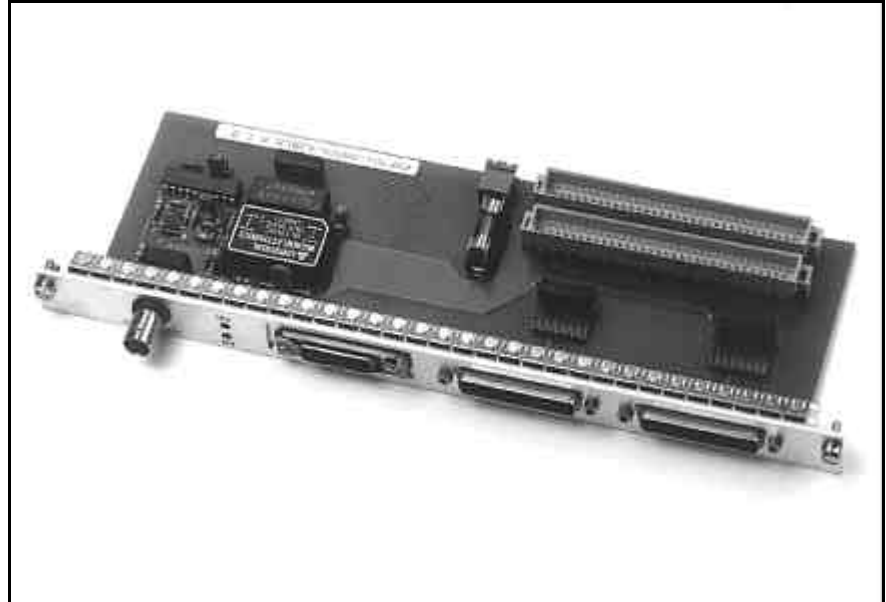
- AUI port via 15-pole DSUB female
- Two serial interfaces using 25-pole DSUB females

IEEE802.3

- Cheapernet interface at BNC connector

Applications

- Front panel wiring in 19" systems
- Communication
- Data acquisition



Wiring

The adapter boards are designed for users of MOTOROLA CPUs MVME147, -162, -167 and -177 and offer a connection for two serial ports and the CPU AUI interface to a front panel via DSUB connectors.

Connection to the CPU can occur directly by flat cable via the CPU P2 connector or, if the CPU SCSI interface shall be used, via MOTOROLA adapter MVME712P2.

Serial Interfaces

For the serial interfaces on the adapters ESP300 and ESP301 jumpers are available for signal conversion to modem or terminal operation. Connection occurs via two 25-pole DSUB females.

Supply Voltages

The serial interface connectors are covered with +12 V and +5 V. The +12 V voltage is picked off from the CPU P2 connector and is displayed by a yellow LED at the front panel. The +5 V voltage is fed via separate plug-terminal connectors and is displayed by a green LED at the front panel.

AUI Interface

The ESP300 AUI interface mainly consists of a 15-pole DSUB female. Besides the ETHERNET signals, the connector is supplied with +12 V as well.

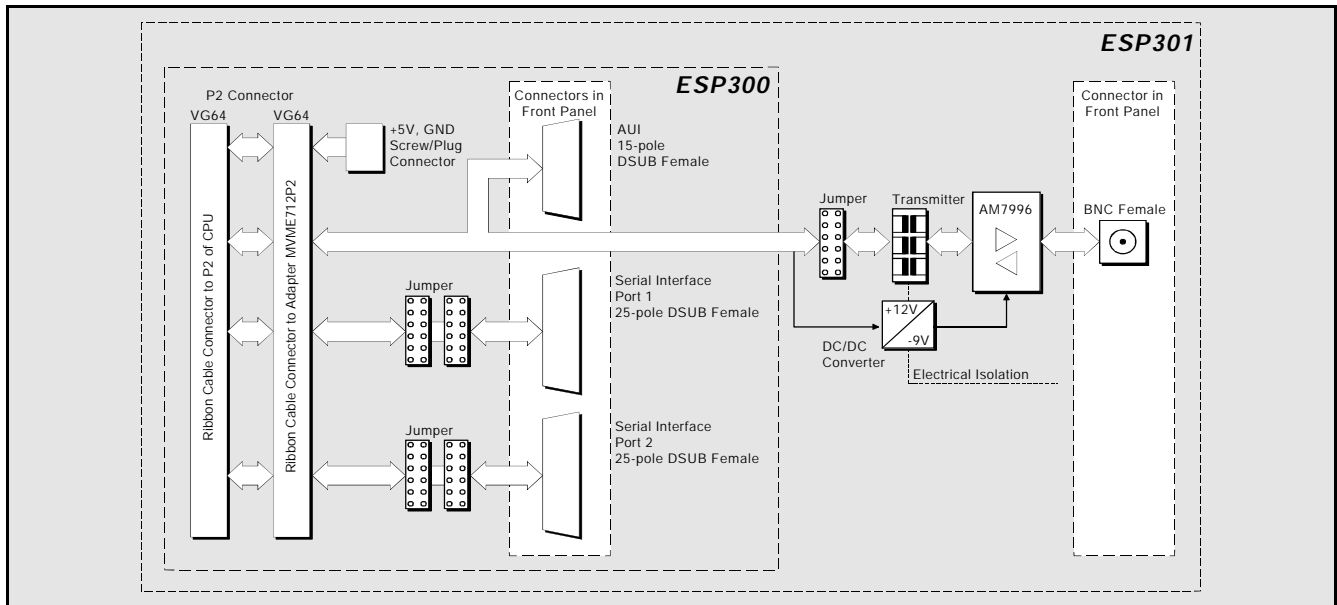
IEEE802.3 Interface

Additionally, ESP301 adapter is equipped with an electrically isolated CHEAPERNET interface. The used driver component is an AM7996. Connection occurs via a BNC connector at the front panel.

Front Panel

Both adapter boards are equipped with a 2 slot front panel in 6 U format. The front panel is designed for a maximum RF shielding in combination with shielded cases. For a contact to adjacent front panels and for RF shielding the front panel is equipped with high-grade steel contact springs.

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Technical Specifications:

Connectors and interfaces:	
Suitable for MOTOROLA CPUs:	MVME147, MVME162, MVME167, MVME177
Connection to CPU:	flat cable directly at P2 or via adapter board MOTOROLA MVME712P2
AUI interface:	signals from CPU P2 directly to 15-pole DSUB female
IEEE802.3 interface: (ESP301 only)	AUI signals fed to electrically isolated Cheapernet interface, BNC connector at the front panel
Serial interfaces:	fed to two 25-pole DSUB females, interface configuration for terminal or modem operation via jumpers
Power supply:	+12 V picked off from CPU P2, +5 V fed via plug-terminal connector, blow-out fuse 1.0 A, voltage display via LEDs at the front panel

General:		
Board size:	233 mm x 80 mm	
Front panel:	6 U/ 4 HP (1 slot)	
Ambient temperature:	ESP300: 0...70 °C ESP301: 0...50 °C	
Humidity:	max. 90%, non-condensing	
Order information:		
Designation		Order no.
ESP300	Adapter for 2 serial interfaces including an AUI interface	K.0415.05
ESP301	As ESP300 but additionally: IEEE802.3 (Cheapernet) interface	K.0415.06