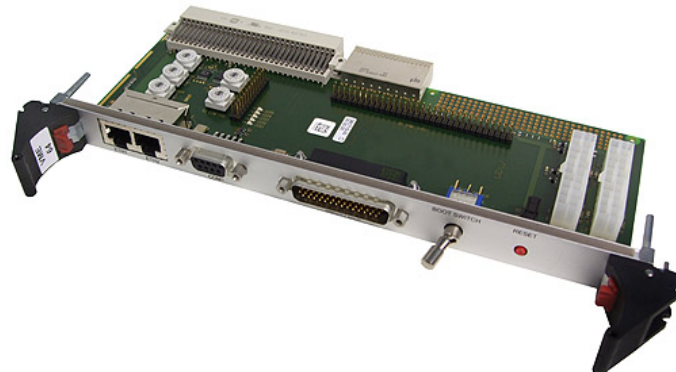


CT15 – 6U VMEbus Transition Module for A602

- 6U / 80 mm standard format
- 1 RS232 interface
- DEX (6x UART)
- BMCX signals
- AFDX® signals
- Debug signals
- PMC I/O
- -40 to +85°C qualified



The CT15 is a 6U VMEbus transition module for use in combination with MEN's A602 single-board computer.

It is plugged onto the VMEbus backplane system slot from the rear side and leads the rear-panel serial I/O signals to standard connectors.

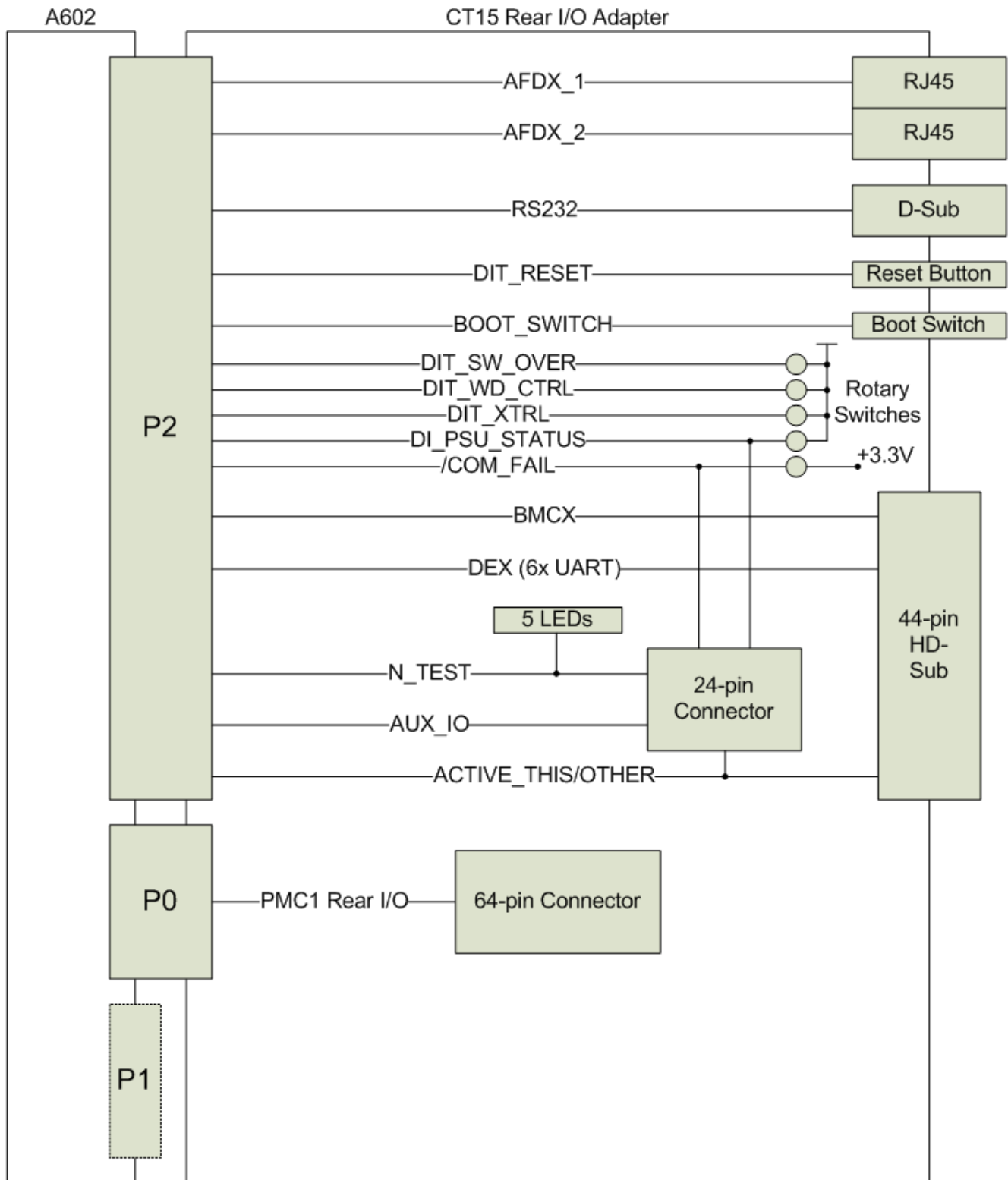
The signals are one RS232 UART, various signals from the two PMC slots (standard rear I/O from PMC1, AFDX® from PMC2), the necessary signals for inter-

board communication when connecting a second A602 (BMCX, DEX (6x UART), ACTIVE_THIS/OTHER) and various debug signals (/COM_FAIL, DI_PSU_STATUS, N_TEST and the AUX_IO signals).

It also offers a reset button, a boot switch, five LEDs for the N_TEST signals from the A602's North FPGA and five rotary switches allowing the /COM_FAIL, DIT_XTRL, DIT_SW_OVER, DIT_WDCTRL and DI_PSU_STATUS signals to be pulled low with an option to connect /COM_FAIL to +3.3V.

The board is designed for an operating temperature from -40 to +85°C with qualified components.

Diagram



Technical Data

Peripheral Connections	<ul style="list-style-type: none"> ■ RS232 UART interface <ul style="list-style-type: none"> □ 9-pin D-Sub connector ■ Inter-board connection to other A602 <ul style="list-style-type: none"> □ BMCX signals □ DEX (6x UART) signals □ ACTIVE_THIS/OTHER signal □ All via 44-pin HD-Sub connector ■ Rear I/O signals from PMC1 <ul style="list-style-type: none"> □ Via 64-pin connector ■ AFDX[®] signals from PMC2 <ul style="list-style-type: none"> □ 2 RJ45 connectors ■ Miscellaneous signals <ul style="list-style-type: none"> □ N_TEST □ AUX_IO □ DI_PSU_STATUS □ /COM_FAIL □ ACTIVE_THIS/OTHER signal □ All via 24-pin connector
Switches/buttons	<ul style="list-style-type: none"> ■ 5 rotary switches the following allowing signals to be pulled low: <ul style="list-style-type: none"> □ DIT_SW_OVER □ DIT_WD_CTRL □ DIT_XTRL □ DI_PSU_STATUS □ /COM_FAIL (connection to +3.3V possible) ■ Boot switch <ul style="list-style-type: none"> □ Flip switch to choose between boot images ■ Reset button
LEDs	<ul style="list-style-type: none"> ■ N_TEST signal LEDs <ul style="list-style-type: none"> □ 5 LEDs on PCB
Mechanical Specifications	<ul style="list-style-type: none"> ■ Dimensions: 233,35x80 mm conforming to VMEbus specification for 6U boards ■ Weight: 162 g
Environmental Specifications	<ul style="list-style-type: none"> ■ Temperature range (operation): <ul style="list-style-type: none"> □ -40..+85°C (qualified components) □ Airflow: min. 1.5m/s ■ Temperature range (storage): -40..+85°C ■ Relative humidity (operation): max. 95% non-condensing ■ Relative humidity (storage): max. 95% non-condensing ■ Altitude: -300m to + 20,000m ■ Shock: 15g/11ms ■ Bump: 10g/16ms ■ Vibration (sinusoidal): 1g/10..150Hz ■ Conformal coating on request
MTBF	<ul style="list-style-type: none"> ■ tbd @ 40°C according to IEC/TR 62380 (RDF 2000)
Safety	<ul style="list-style-type: none"> ■ PCB manufactured with a flammability rating of 94V-0 by UL recognized manufacturers
EMC	<ul style="list-style-type: none"> ■ Conforming to EN 55022 (radio disturbance), IEC1000-4-2 (ESD) and IEC1000-4-4 (burst)

Ordering Information

Standard CT15 Models	08CT15-02	Rear I/O adapter for A602 with front panel. With RS232, PMC RIO, DEX-UART, BMC, MISC, -40..+85°C with qualified components
Related Hardware	01A602-02	3x PowerPC® 750CL 1 GHz, 3x 512 MB DRAM, 2x 256 MB Flash, 1 MB FRAM, 2 standard PMC slots, convection cooling (airflow 2 m/s), -40 to +50°C with qualified components
Documentation		More detailed information on the CT15 is included in the appendix of the A602 User Manual. Please contact us to request a copy.

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