

TCM - GIO - CAN - Ejectors - TTCRx



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TCM



- Display Visualisers have been re-designed.
 - Displays VME data.
 - Extended memory for CAN.
 - Document produced for up-date.
 - Refers to modification in PR 02 and talk on the Friday 9th November 2001.

TCM

■ New Address Map:

Register Name	Address	Expected data	Description
Module ID	0x00	0x3195	TCM ID Code
TTC Status	0x02	0x0001	Link Status (1 = no TTC)
DBID	0x04	0x0000	ALC ID Code
DBSNo	0x06	0x0000	ALC Serial No
MBSNo	0x08	0x0000	TCM serial No
Can_reset	0x0A	N/A	Can buss reset
Firmware Version	0x0C	0x0272	Version No, month, year
Spare Register	0x0E	0xFFFF	None
RAM	0x10	N/A	Memory space
	N/A		
RAM	0xFE	N/A	Memory Space

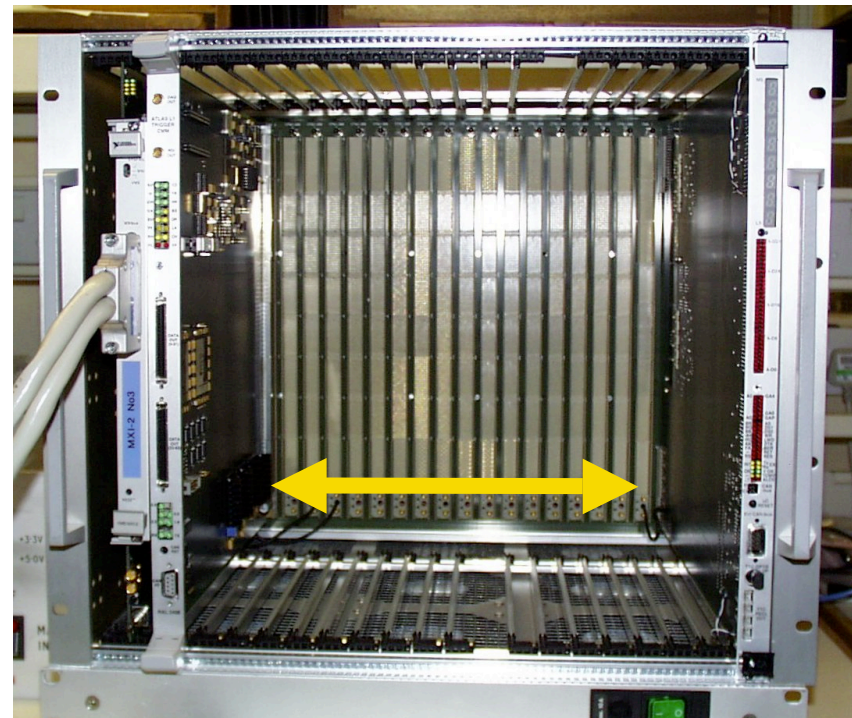
GIO



- Adapter cards manufactured..
- DSS Loop back test ok..
- More tests planned..
- Being used to test CMM..
- Will order 4 more after cct modifications..

CAN

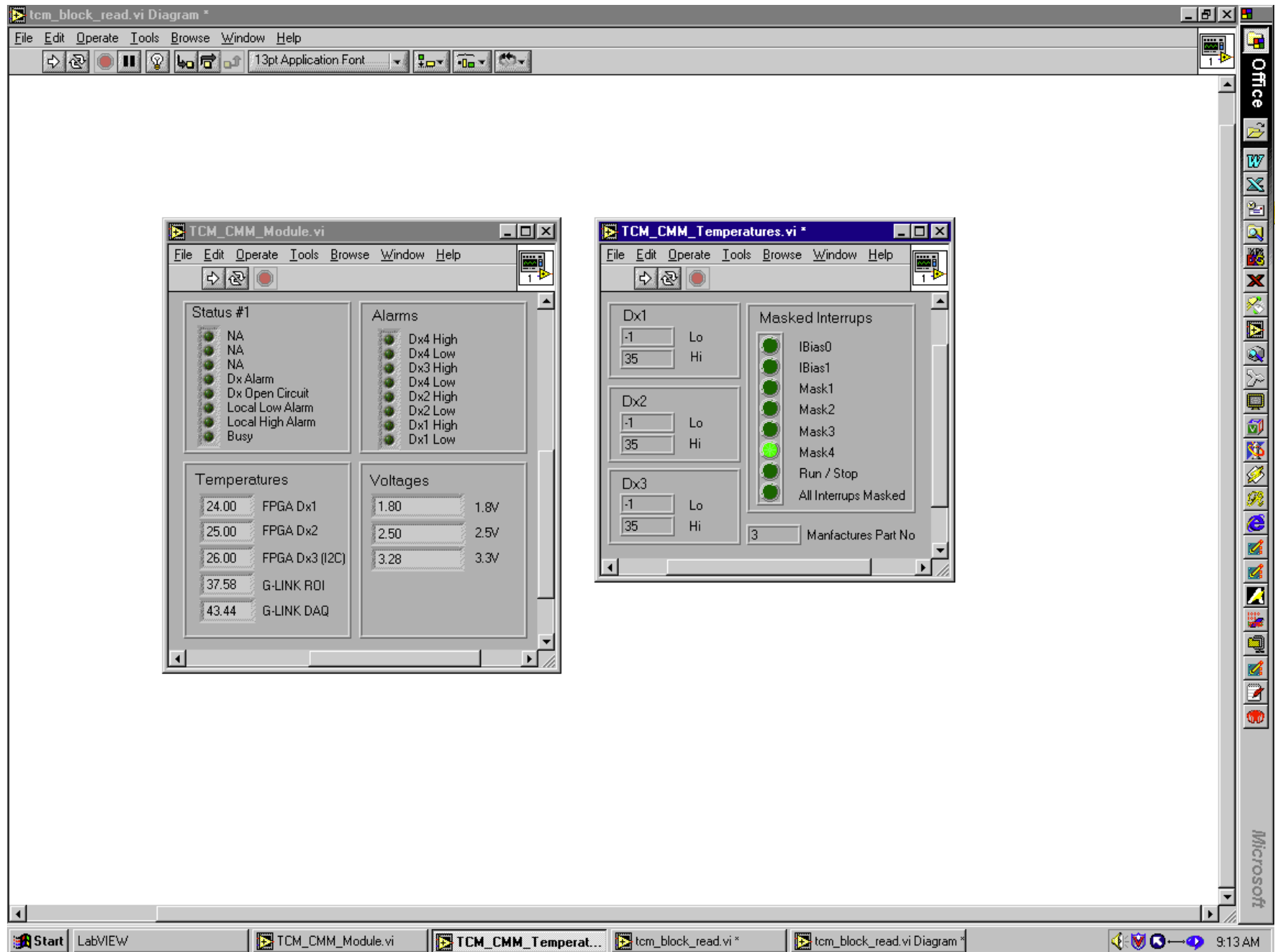
- Established CAN communication between CMM and TCM in processor crate.
- TCM Requests FPGA temperature and voltage data.



CAN

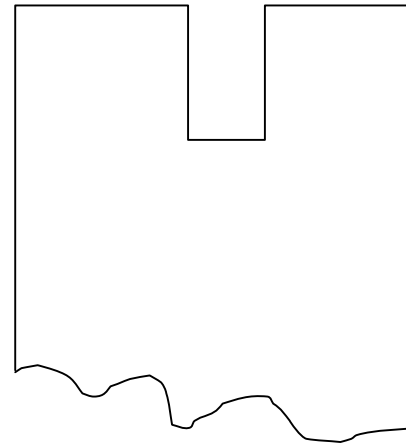
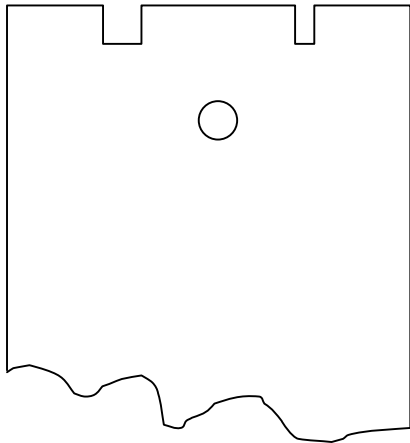


- TCM requests temperature and voltage readings from CMM via the CAN Buss.
- CMM obtains FPGA temperatures via SMBuss protocol, voltages using AtoD converters.
- CMM alerts TCM that over-temperature alarm has been set.

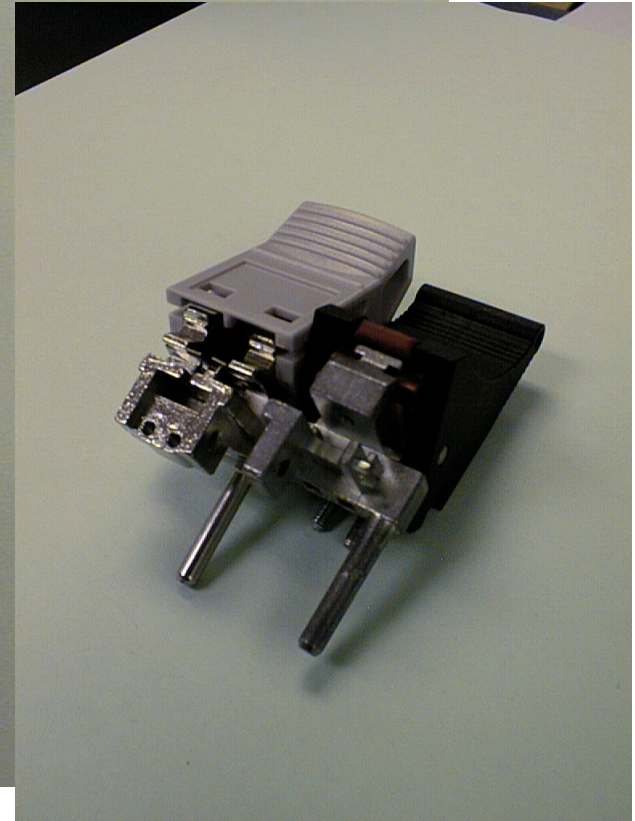
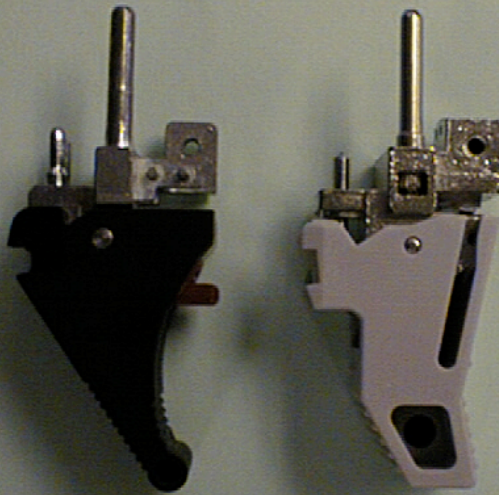
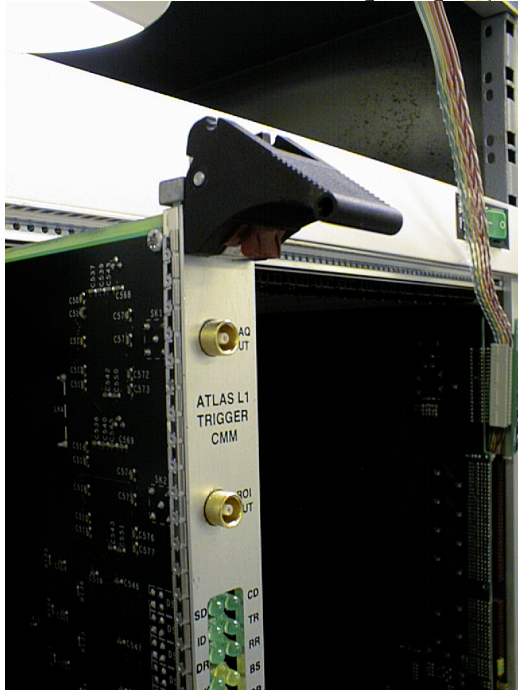


Ejectors

- Requires new cut-out.
- Fixes to front panel.



Ejectors



TTCRx



- Obtained verilog file.
- Compiled using ModelSim (with help from James)
- Generated mcs files for various addresses.
- Programmed prom.
- All cards configured for testing.

Summary



- TCM - Data Problem solved.
- GIO - Successfully being used with CMM..
- CAN - Fully functional..
- Ejectors - On trial with CMM..
- TTCRx - Ongoing..

Things to do



- Test TTCRx cards.
- Up-date TTCRx card schematics for new decoder chip.
- Develop CAN for CPM ready for slice.?
- Up-date GIO schematics ready for version II.
- Distribute TCM up-date document..