

PXI Based Core Power Test System

U R Rao Satellite Centre (URSC) of Indian Space Research Organisation (ISRO) has developed PXI Based Core Power Test System for testing of spacecraft power packages during different phases of test and evaluation.



PXI Based Core Power Test System

Salient Features

- ✦ Compatible for both LEO and GEO spacecraft Power BUS.
- ✦ Software configurable system. Adopts to changes in power configuration.
- ✦ All testing is automated results in fast testing. Avoids manual errors.
- ✦ Though suited for package level tests it can be employed for Card Level testing.
- ✦ Off the Shelf available hardware is used for test system development. No custom specific instrumentation required.
- ✦ Background data logging.

Major Specifications

- ✦ 200 Channels Single Ended Analog Measurement (up to 100 V).
- ✦ 32 Channels Differential Analog Measurement (Up to 200V).
- ✦ Dual independent 1553 support (BC, RT).
- ✦ 16 channel optically isolated digital input.
- ✦ 72 channel software configurable pulse/Level command (Voltage range 5 to 42V).
- ✦ 4 channel RS485 for instrument control (up to 128 instruments support).
- ✦ Multiple LAN ports are available for LXI instruments controls.
- ✦ Automation Software for calibration, Protection logic, regulation test etc.
- ✦ Background time tagged data logging with configurable sampling rates.

Technology Transfer

URSC/ISRO offers to transfer this technology of PXI Based Core Power Test System developed by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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