TestMaster® – Modules

TestMaster® - Base Licence:

Base functions:
- user administration
- user interface administration
- YASE sequence editor
- sequencer
- hardware abstraction
- user interface for control and visualization of digital and analog signals (IOPoints)

Besides the following device drivers are included:
- NI-DAQ driver (incl. SCXI) for analog, digital IO and PWM (National Instruments cards on request)
- power supply control: IVI, Rhode & Schwarz, Delta Elektronik incl. user interface, IOPoint access and sequence statements

TestMaster® / TestStand™ Connection:

National Instruments TestStand extention: hardware access and sequence definition
- conversion and execution of YASE sequences within TestStand
- hardware abstraction in TestStand sequences
- availability of all TestMaster statements within TestStand
- access to TestMaster user interfaces via TestStand
- (NI TestStand licence required)

TestMaster® RealTime (RT):

TestMaster version for LabVIEW™ RT (PXI).
Transparent hardware layer for signal distribution to the PC; additional functions for monitoring and controlling of the RT system by user interfaces and IOPoints; hardware control by hardware abstraction.

TestMaster® DB Package:

Data base based definition and sequential execution of test sequences.
Test execution in TestMaster or TestStand by interactive user interfaces or via sequence control (TestMaster/TestStand connection required); administration of test requirements and results via relational database system; formatted result protocols; execution of special test methods by additional functions.

TestMaster® XML Package:

Variable test management integration.
XML interface for user definable test administration; transfer and execution of test requirements to TestMaster by XML scheme; XML result files; test execution depending on TestMaster DB.

CTE Integration:

Definition and recording of test sequences with the graphical Razorcat CTE tool by equivalent class method.
CTE integration via IOPoints and the possibility of creating tests in TestMaster; test execution via TestMaster or TestStand (TestMaster/TestStand-connection required); result output in CTE format.

imbus TestBench Integration:

Integration of the test management system TestBench into the test environment by TestMaster.

Datalogging and Distribution Package:

Adaptation and monitoring of signals; data recording in the range of > 1 Hz.
Flexible range monitoring; interaction and recording; central message server; user interfaces for monitoring and saving log files in ASCII format.

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Signal Generation and Analysis:

Generation of periodical signals and free signal types from recorded signal processes basing on IOPoints.
Recording, visualization and analysis of streaming data; evaluation basing on special sequence statements; visualization via configurable user interfaces; handling of signals in kHz range.

Process Data Package:

Interactive panel editor for handling of user defined user interfaces.
Creating user interfaces basing on IOPoints (IO signals), graphs and sequences; supervisor for system monitoring based on IOPoints; state definition by user interface; monitoring and control of supervisor activities by IOPoints.

CANoe Coupling

Access to environment variables of CANoe applications via analog, digital and string IOPoints.
Remote control of CANoe applications or models; access via hardware abstraction; access via network (additional CANoe lizence (› V3.x) required).

MATLAB Simulink Integration:

Integration of MATLAB® Simulink® Models.
Integration of IO signals of models in the TestMaster environment; model based triggering and request (respective licence of The MathWorks, a National Instruments Simulation Toolkit, and a LabVIEW environment required).

CAN/LIN Basis Module with NI CAN Device Drivers:

Processing of field bus based signals as logical IOPoints, direct, data stream oriented access to messages.
User interfaces and sequence statements for stimulation, visualization and analysis; background monitoring of timing and logic of data streams via additional configurable CAN supervisor module. (including drivers for NI-CAN family with Class-B and Class-C ports)

Göpel-LIN Device Driver:

Usage of serial Göpel LIN v1.3 interface as master and slave.
Control and request of modul information via IOPoints; support of message based functions of the CAN/LIN module (CAN/LIN Basis Module required for control of Göpel-LIN hardware).

IVI-DMM Device Driver:

Control of digital multimeters DMM (e.g. National Instruments, Keithley, Agilent) by IVI standard drivers.

TestMaster Switching:

Interactive path definition and IOPoint access based on the IVI switch class e. g. for NI, Pickering.
Automatically path switching while accessing hardware signals (IVI drivers of switch class required).

iSYSTEM winIDEA Emulator Integration:

Microcontroller emulator integration.
Function module for iSYSTEM emulator integration in the TestMaster environment; support of up to 1000 types of micro-controllers with standard protocols or in circuit emulation; triggering of emulator functions during test via sequence statements (iCONNECT and winIDEA Licences required).

National Instruments FPGA Integration:

Close to hardware and high speed solutions.
Integration of the National Instruments FPGA IO cards for HIL simulation, regulation, realization and test of communication protocols or trigger conditions; the functions are created by user or S.E.A. and are implemented into the TestMaster environment by configuration as device (for FPGA VI development National Instruments licences required).

Various Additional...

modules are available, e.g. for

- motion controllers,
- test modules component protection tests,
- communication protocols (TP 2.0, KWP 2000),
- imaging,
- electronic loads,resistance decades.

Please ask for further modules or for solutions matching your requirements.

S·E·A Science & Engineering Applications Datentechnik GmbH
Linder Höhe
51147 Köln
+49 - 22 03 - 9 80 07 - 0
+49 - 22 03 - 9 80 07 - 14
www.sea-gmbh.com
info@sea-gmbh.com