**Equipment Driver Interface**

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# Summary：

|  |  |
| --- | --- |
| **FrameWork Class** | **Descriptions** |
| TestModelBase | test base class |
| AdjustAPD | Adjusting apd and fitting coefficient class inherits the TestModelBase Class |
| AdjustEye | Adjusting txpower and fitting coefficient class inherits the TestModelBase Class |
| AdjustLos | Adjusting LOS Assert LOS Dessert and fitting class inherits the TestModelBase Class |
| AdjustTxPowerDmi | Adjusting txpowerDMI and fitting coefficient class inherits the TestModelBase Class |
| CalRxDmi | Adjusting rxpowerDMI and fitting coefficient class inherits the TestModelBase Class |
| CalTempDmi | Adjusting Temperature DMI and fitting coefficient class inherits the TestModelBase Class |
| CalVccDmi | Adjusting VCC DMI and fitting coefficient class inherits the TestModelBase Class |
| AlarmWarning | Testing AlarmWarning class inherits the TestModelBase Class |
| TestBer | Testing [sensitivity](app:ds:sensitivity) class inherits the TestModelBase Class |
| TestEye | Testing [Optical](app:ds:sensitivity) eye and [electrical](app:ds:electrical) eye class inherits the TestModelBase Class |
| TestIBiasDmi | Testing IBias -[current](app:ds:current) DMI class inherits the TestModelBase Class |
| TestIcc | Testing [module](app:ds:module) [current](app:ds:current) DMI class inherits the TestModelBase Class |
| TestRXLosAD | Testing LOS Assert point and LOS Dessert point class inherits the TestModelBase Class |
| TestRxPowerDmi | Testing RxPower DMI class inherits the TestModelBase Class |
| TestTempDmi | Testing Temperature DMI class inherits the TestModelBase Class |
| TestTxPowerDmi | Testing TxPower DMI class inherits the TestModelBase Class |
| TestVccDmi | Testing [module](app:ds:module) VCC DMI class inherits the TestModelBase Class |
| CalRxDminoProcessingCoef | Adjusting rxpowerDMI and fitting coefficient class inherits the TestModelBase Class |
| CalTempDminoProcessingCoef | Adjusting Temperature DMI and fitting coefficient class inherits the TestModelBase Class |
| CalVccDminoProcessingCoef | Adjusting VCC DMI and fitting coefficient class inherits the TestModelBase Class |

# FrameWork

## TestModeParametersStruct

ClassName：public struct TestModeEquipmentParameters

attribute：

|  |  |  |  |
| --- | --- | --- | --- |
| Range | Range | Name | Descriptions |
| public | string | FiledName |  |
| public | string | DefaultValue |  |

## GlobalParametersStruct

Class name：public struct GlobalParameters

1. attribute：

|  |  |  |  |
| --- | --- | --- | --- |
| Range | Type | Name | Descriptions |
| public | double | CurrentVcc |  |
| public | double | VccOffset |  |
| public | double | Iccoffset |  |
| public | double | CurrentTemp |  |
| public | byte | CurrentChannel |  |
| public | byte | TotalTempCount |  |
| public | byte | TotalVccCount |  |

## TestModelBase

Class name：public TestModelBase

1. attribute：

|  |  |  |  |
| --- | --- | --- | --- |
| Range | Type | Name | Descriptions |
| public | TestModeEquipmentParameters[] | outputParameters | Testmode outputparameters |
| public | TestModeEquipmentParameters[] | inputParameters | Testmode inputparameters |
| public | string | logoStr | Logo information |
| public | globalParameters | GlobalParameters | Common parameters |
| public | EquipmentList | selectedEquipList | equipmentlist |

1. method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| public virtual | bool | SelectEquipment | EquipmentList aEquipList | SelectEquipment |
| public | bool | RunTest() |  | Start test |
| public | string | GetLogInfor() |  | Get log information |
| public virtual | bool | AnalysisInputParameters | TestModeEquipmentParameters[] inputParameters | Analysis inputParameters |
| public virtual | bool | AnalysisOutputParameters | TestModeEquipmentParameters[] outputParameters | Analysis inputParameters |

## AdjustAPD

1. Class name：public class AdjustAPD : TestModelBase
2. BaseClass：TestModelBase
3. constructed function: Public: AdjustAPD(DUT inPutdut)
4. method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## AdjustEye

1. Class name：public class AdjustEye : TestModelBase
2. BaseClass：TestModelBase
3. constructed function:public AdjustEye(DUT inPutdut)
4. method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## AdjustLos

1. Class name：public class AdjustLos : TestModelBase
2. BaseClass：TestModelBase
3. constructed function：public AdjustLos(DUT inPutDut)
4. Method:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## AdjustTxPowerDmi

1. Class name： public class AdjustTxPowerDmi : TestModelBase
2. BaseClass：TestModelBase
3. constructed function：public AdjustTxPowerDmi(DUT inPutDut)
4. Method:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## CalRxDmi

1. Class name：public class CalRxDmi: TestModelBase
2. BaseClass：TestModelBase
3. constructed function：public CalRxDmi(DUT inPuDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## CalTempDmi

1. Class name： public class CalTempDmi : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public CalTempDmi(DUT inPuDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## CalVccDmi

1. Class name： public class CalVccDmi : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public CalVccDmi(DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## AlarmWarning

1. Class name： public class AlarmWarning:TestModelBase
2. Base Class：TestModelBase
3. constructed function：public AlarmWarning(DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestBer

1. Class name：public class TestBer : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestBer(DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestEye

1. Class name：public class TestEye : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestEye (DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestIBiasDmi

1. Class name：public class TestIBiasDmi : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestIBiasDmi (DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestIcc

1. Class name：public class TestIcc : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestIcc (DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestRXLosAD

1. Class name：public class TestRXLosAD : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestRXLosAD (DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestRxPowerDmi

1. Class name：public class TestRxPowerDmi: TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestRxPowerDmi (DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestTempDmi

1. Class name：public class TestTempDmi: TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestTempDmi (DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestTxPowerDmi

1. Class name：public class TestTxPowerDmi: TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestTxPowerDmi (DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## TestVccDmi

1. Class name：public class TestVccDmi: TestModelBase
2. Base Class：TestModelBase
3. constructed function：public TestVccDmi (DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
|  | bool | RunTest() |  | Testmode start test |

## CalRxDminoProcessingCoef

1. Class name：public class CalRxDminoProcessingCoef: TestModelBase
2. BaseClass：TestModelBase
3. constructed function：public CalRxDminoProcessingCoef(DUT inPuDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## CalTempDminoProcessingCoef

1. Class name： public class CalTempDminoProcessingCoef : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public CalTempDminoProcessingCoef(DUT inPuDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |

## CalVccDminoProcessingCoef

1. Class name： public class CalVccDminoProcessingCoef : TestModelBase
2. Base Class：TestModelBase
3. constructed function：public CalVccDminoProcessingCoef(DUT inPutDut)
4. Method：

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Range | Type | Name | formal parameter | Descriptions |
| Public override | bool | SelectEquipment | EquipmentList aEquipList | Select equipment |
| Public override | bool | RunTest() |  | Testmode start test |