



i TF3510 | TC3 Analytics Library

The TwinCAT 3 Analytics Library is a PLC library with analysis functions and application data. The library can be used locally on the machine controller or on a remote analysis system with IoT communication connection. In particular for the second application, PLC code can be generated automatically on the basis of this library with the engineering tool TE3500 TC3 Analytics Workbench.

Function modules are available with simple and more complex functions. The spectrum ranges from flank counters, life time monitoring, machine cycle analysis through to mathematical functions and envelope curve monitoring. Minimum and maximum input signal values can be calculated in just the same way and linked together by means of logical operators. All modules are suitable for object-oriented application design and use the features of IEC 61131-3 programming.

FB_ANA_Timing	
pData	POINTER TO BYTE
nDataSize	UDINT
bExecute	BOOL
bReset	BOOL
stConfig	ST_ANA_TimingConfig
	BOOL bNewData
	BOOL bError
	DINT nErrorID
	UDINT nSwitchCount
	T_DCTIME64 tOnTotal
	T_DCTIME64 tOnMin
	T_DCTIME64 tOnMax
	T_DCTIME64 tOnAvg
	T_DCTIME64 tOffTotal
	T_DCTIME64 tOffMin
	T_DCTIME64 tOffMax
	T_DCTIME64 tOffAvg
Name	Type
nClientID	GUID
eDataType	E_ANA_Datatype
fThresholdOn	LREAL
fThresholdOff	LREAL
eTriggerOn	E_ANA_TriggerOpt
eTriggerOff	E_ANA_TriggerOpt

Technical data	TF3510
Required	TC1200
Target system	Windows 7/8/10

Ordering information	
TF3510-0v20	TC3 Analytics Library, platform 20 (Economy)
TF3510-0v30	TC3 Analytics Library, platform 30 (Economy Plus)
TF3510-0v40	TC3 Analytics Library, platform 40 (Performance)
TF3510-0v50	TC3 Analytics Library, platform 50 (Performance Plus)
TF3510-0v60	TC3 Analytics Library, platform 60 (Mid Performance)
TF3510-0v70	TC3 Analytics Library, platform 70 (High Performance)
TF3510-0v80	TC3 Analytics Library, platform 80 (Very High Performance)
TF3510-0v81	TC3 Analytics Library, platform 81 (Many-core 5...8 Cores)
TF3510-0v82	TC3 Analytics Library, platform 82 (Many-core 9...16 Cores)
TF3510-0v83	TC3 Analytics Library, platform 83 (Many-core 17...32 Cores)
TF3510-0v84	TC3 Analytics Library, platform 84 (Many-core 33...64 Cores)
TF3510-0v90	TC3 Analytics Library, platform 90 (Other)
TF3510-0v91	TC3 Analytics Library, platform 91 (Other 5...8 Cores)
TF3510-0v92	TC3 Analytics Library, platform 92 (Other 9...16 Cores)
TF3510-0v93	TC3 Analytics Library, platform 93 (Other 17...32 Cores)
TF3510-0v94	TC3 Analytics Library, platform 94 (Other 33...64 Cores)



Product announcement

estimated market release 2nd quarter 2019