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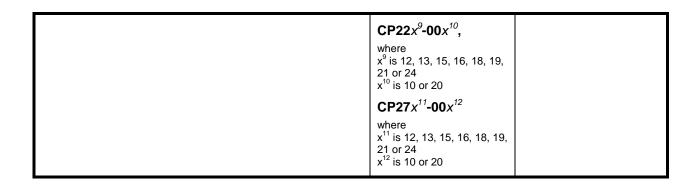
BACnet Testing Laboratories Product Listing

This product has been tested at a qualified BACnet Testing Laboratory and found to comply with all the necessary interoperability requirements in place on the published test date. This listing represents the tested capability of the Listed Products. For information on additional functionality that was not covered in the test process, refer to the Manufacturer's PICS statement on the BACnet International website.

Listing Information (BTL-30402)

Vendor		Listing Status
BECKHOFFAutomation GmbH & Co. KG Hülshorstweg 20 33415 Verl Germany		Listed Product
Test Requirements	BACnet Protocol Revision	Date Tested
Requirements as of May 2018	Revision 14 (135-2012)	January 2019

Product Name	Model Numbers	Firmware version
	CX8191,	
	CX9020, CX51x ¹ , where x ¹ is 20, 30 or 40	
	CX52x ² ,	
	where x^2 is 30 or 40 $C60x^3-00x^4$,	
TwinCAT BACnet	where x³ is 15 or 17 x⁴ is 10 or 20	4.0.1
	C60 x^5 -0060, where x^5 is 30 or 32 CP66 x^6 ,	
	where x ⁶ is 00 or 06	
	CP67x ⁷ -0001-00x ⁸ ,	
	where x ⁷ is 00 or 06 x ⁸ is 50 or 60	



Device Profiles

Profile	Model Numbers
BACnet Building Controller (B-BC)	All models

BIBBs Supported

	ReadProperty-A	DS-RP-A
	ReadProperty-B	DS-RP-B
	ReadPropertyMultiple-A	DS-RPM-A
	ReadPropertyMultiple-B	DS-RPM-B
	WriteProperty-A	DS-WP-A
	WriteProperty-B	DS-WP-B
Data Sharing	WritePropertyMultiple-B	DS-WPM-B
	Change Of Value-A	DS-COV-A
	Change Of Value-B	DS-COV-B
	Change Of Value Property-A	DS-COVP-A
	Change Of Value Property-B	DS-COVP-B
	Change Of Value Unsubscribed-A	DS-COVU-A
	Change Of Value Unsubscribed-B	DS-COVU-B
	Notification Internal-B	AE-N-I-B
	Notification External-B	AE-N-E-B
	Acknowledge-B	AE-ACK-B
Alarm and Event	Alarm Summary-B	AE-ASUM-B
Notification	Enrollment Summary-B	AE-ESUM-B
	Information-B	AE-INFO-B
	Event Log-Internal-B	AE-EL-I-B
	Event Log-External-B	AE-EL-E-B
	•	
0 1 1 11	Internal-B	SCHED-I-B
Scheduling	External-B	SCHED-E-B
		I.
	Viewing and Modifying Trends Internal-B	T-VMT-I-B
	Viewing and Modifying Trends Internal B Viewing and Modifying Trends External-B	T-VMT-E-B
Trending	Automated Trend Retrieval-B	T-ATR-B
rionalig	Viewing and Modifying Multiple Values Internal-B	T-VMMV-I-B
	Automated Multiple Value Retrieval-B	T-AMVR-B

	Dynamic Device Binding-A	DM-DDB-A
	Dynamic Device Binding-B	DM-DDB-B
	Dynamic Object Binding-B	DM-DOB-B
	DeviceCommunicationControl-B	DM-DCC-B
	TimeSynchronization-A	DM-TS-A
	TimeSynchronization-B	DM-TS-B
Davica Management	UTCTimeSynchronization-A	DM-UTC-A
Device Management	UTCTimeSynchronization-B	DM-UTC-B
	ReinitializeDevice-B	DM-RD-B
	Backup and Restore-B	DM-BR-B
	Restart-B	DM-R-B
	List Manipulation-B	DM-LM-B
	Object Creation and Deletion-B	DM-OCD-B
	Automatic Time Synchronization-A	DM-ATS-A

Network	Router Configuration-B	NM-RC-B
Management	BBMD Configuration-B	NM-BBMDC-B

Object Type Support

Accumulator	Analog Input	Analog Output
Analog Value	Averaging	Binary Input
Binary Output	Binary Value	Bitstring Value
Calendar	Characterstring Value	Command
Date Pattern Value	Date Value	Datetime Pattern Value
Datetime Value	Device	Event Enrollment
Event Log	File	Group
Integer Value	Large Analog Value	Loop
Multi-State Input	Multi-State Output	Multi-State Value
Notification Class	Octetstring Value	Positive Integer Value
Program	Pulse Converter	Schedule
Structured View	Time Pattern Value	Time Value
Trend Log	Trend Log Multiple	

Data Link Layer Options

Media	Options
BACnet/IP (Annex J)	BBMD, Register as Foreign Device
MS/TP Master	9600, 19200, 38400, 57600, 76800, 115200

Networking Options

Networking Functionality	Media
Router	BACnet/IP (Annex J), MS/TP
BBMD	BACnet/IP (Annex J), MS/TP

Character Set Support

ISO 10646 (UTF-8	3)