CPX 200 Ecosystem

Ordering Information

Overview Package Options

	Power Transformer ⓘ	Instrument Transformer ⓘ	Switchgear ⓘ	Multifunctional ⓘ
Essential **Package Savings** > ~10 % (Multifunctional) > ~5 % (Application)	**Hardware** > CPX 200 **User Interface** > CPX 200 TouchControl > CPXpert PC suite **Test licenses** > TR Ratio > TR Winding Resistance > TR Demagnatization > Quick	**Hardware** > CPX 200 **User Interface** > CPX 200 TouchControl > CPXpert PC suite **Test licenses** > CT Ratio > CT Winding Resistance > CT Burden > Quick	**Hardware** > CPX 200 **User Interface** > CPX 200 TouchControl > CPXpert PC suite **Test licenses** > SG Timing > SG Contact Resistance > Quick	**Hardware** > CPX 200 **User Interface** > CPX 200 TouchControl > CPXpert PC suite **Essential test licenses for** > Power Transformer > Intrument Transformer > Switchgear
Standard **Package Savings:** > ~15 % (Multifunctional) > ~10 % (Application)	**Hardware** + High Current Module **User Interface** + CPXpert Advanced **Test licenses** + TR Short-circuit Impedance[1]	**Hardware** + High Current Module + CPOL3 **User Interface** + CPXpert Advanced **Test licenses** + CT Excitation + CT Ratio V + CT Ratio Low Power + VT Ratio + VT Burden + Polarity Check	**Hardware** + High Current Module **User Interface** + CPXpert Advanced **Test licenses** + SG Coil Current + SG Motor Current	**Hardware** + High Current Module + CPOL3 **User Interface** + CPXpert Advanced **Standard test licenses for** > Power Transformer > Intrument Transformer > Switchgear
Enhanced **Package Savings:** > ~20 % (Multifunctional) > ~15 % (Application)	**Hardware** + HVX10 **Test licenses** + C & DF/PF Overall[1] + C & DF/PF C1[1] + C & DF/PF C2[1] + C & DF/PF Universal + Insulation Resistance	**Hardware** + HVX10 **Test licenses** + C & DF/PF Universal + Insulation Resistance	**Hardware** + HVX10 **Test licenses** + C & DF/PF Universal + Insulation Resistance	**Hardware** + HVX10 **Enhanced test licenses for** > Power Transformer > Intrument Transformer > Switchgear
Complete ⓘ **Savings:** ~50 % in first year	not available	not available	not available	**User Interface[2]** + CORTEX Grid Standard **Annual Digital license[3]** + All test licenses on subscription basis. + Future CPX 200 licenses are included (once available)

[1] CPXpert exclusive test
[2] The sale of Multifunctional Complete packages requires a CORTEX Grid contract, which is either already active or included with the first purchase.
[3] The Annual Digital License for CPX 200 is an additional subscription-based license and is added per Multifunctional complete package.

Package options

OMICRON designed

	Description	Item no.
CPX 200 Multifunctinal Essential	The Essential package is perfect for those starting out. This tier includes the CPX 200 (without the high-current module) and offers the most essential tests per application, ensuring that the fundamental tools are included.	P0011551
CPX 200 Multifunctinal Standard	The Standard package offers a comprehensive testing solution with a deeper diagnostic focus. This tier includes the most prominent tests per application, a CPX 200 integrated high-current module, and performing tests with CPXpert.	P0011552
CPX 200 Multifunctinal Enhanced	The Enhanced package provides the full spectrum of available CPX 200 testing capabilities. This tier includes everything in the Standard package, plus the HVX10 with dissipation-/power factor & capacitance and insulation resistance testing.	P0011553
CPX 200 Multifunctional Complete	CPX 200 Multifunctional Complete package includes the > CPX 200 Multifunctional Enhanced hardware components Digital License as a subscription → CORTEX Grid for unlimited users ⓘ → Annual Digital license for CPX 200 The software components, including the Digital license and CORTEX Grid, are available through a subscription. This subscription ensures continuous access to the full suite of software features, including future updates to the CPX 200 software and cloud services. Testers benefit from ongoing access to the latest tools and licenses as part of the subscription.	P0012118
CPX 200 Application Specific	For applications such as power and instrument transformers, as well as switchgear, specific packages are available for Essential, Standard, and Enhanced tiers. These packages may be considered individually or combined to be tailored to your specific needs.	Link Link Link

Tailored Packages

	Description	Item no.
CPX 200 Basic Package ⓘ	The Tailored to Your Needs configuration allows for full customization of the CPX 200. Starting with the CPX 200 Basic package, you can optionally integrate a high-current module and choose cable lengths in either short or long forms. Additionally, software licenses can be selected individually or in package groups to complement the defined hardware. Choose your CPX 200 according to your needs and requirements.	P0011479

Benefits of the Multifunctional packages

Unlock the full potential of substation commissioning with **CPX 200 Multifunctional** packages.
Tailored for engineers and testers, this solution offers comprehensive hardware and software testing capabilities, ensuring the CPX 200 performs at its best for you.

One solution for multiple applications

> Guided setup and wiring with intuitive connections, such as color-coded cables
> Intuitive and easy time-optimized testing workflows
> Software designed with multi-asset testing in mind
> Seamless data integration from CPX 200 TouchControl to CPXpert and CORTEX Grid

Integrated safe testing

> The most compact and lightweight multifunctional testing solution for substation assets, all in a single transport case
> Compliant with EN 50191 operational testing workflows
> Plug-and-play solution compatible with safety equipment like the OSA1
> Guided signal indicator lights for each input and output, simplifying wiring
> Audible hazard signals

Application-focused solution

> One-button standard reporting
> Tailored testing workflows that cover both standard and diagnostic test requirements
> Comprehensive asset nameplate coverage.
> Automatic and manual result assessment tailored to applicable standards or specific needs
> CPXpert includes built-in data quality checks to ensure all asset definitions are accurate and valid, saving you time and preventing costly errors

Multifunctional packages

	Item no.	Description
CPX 200 Multifunctional Essential	P0011551	**Hardware** 1×CPX 200 **Software package** 1×Multifunctional Essential **Cables and accessories** 2×Interlock key 1×CPX 200 display cover 1×Transport case for CPX 200 & HVX10 1×Carry bag for multi asset cables 2×Multi-asset cable (4 pole, 15 m (50 ft), 2.5mm² including 1 × carry bag) 1×Essential accessories for CPX 200 ⓘ 10 m (33 ft) cable configuration
CPX 200 Multifunctional Standard ✛ includes CPX 200 Multifunctional Essential plus:	P0011552	**Hardware** 1×High Current Module integrated in CPX 200 ⓘ 1×CPOL3 including case and accessories **Software package** 1×Multifunctional Standard **Cables and accessories** 1×Essential accessories for High Current Module ⓘ 9 m (30 ft) cable configuration 1×Carry bag for high current module cables 1×AC / DC current clamp E25 with integrated zero adjustment
CPX 200 Multifunctional Enhanced + includes CPX 200 Multifunctional Standard plus:	P0011553	**Hardware** 1×HVX10 ⓘ **Software package** 1×Multifunctional Enhanced Cables and accessories 1×Essential accessories for HVX10 ⓘ

Transportation

> P0011075 - Two-Case Upgrade Option for CPX 200 and HVX10
> This upgrade option includes a transport case for the CPX 200 and HVX10, along with foam inlays for single device transportation of CPX 200 and HVX10.

Benefits of the CPX 200 Multifunctional Complete package

The **CPX 200 Multifunctional Complete** package provides the **full capabilities of hardware and software for multifunctional testing of the CPX 200**. It combines this power with **CORTEX Grid, a cloud-based solution** designed specifically for engineers, providing the right **workflows to handle commissioning projects** including **one-click reports with data analytics tools, customizable to your preferences and templates.**

Digital Benefits

> A secure, centralized space for your company's testing data, enabling collaboration, advanced analysis and customized reporting.
> Always have access to the latest information on tests executed on an Asset
> Microsoft Azure hosting tailored to your preferred server location
> OMICRON applies the Secure Software Development Life Cycle (SSDLC) process. This ensures that our products are built with security in mind right from the beginning.

For more information see:
www.omicronenergy.com/en/support/product-security

OMICRON Continuity interfaces

OMICRON Continuity is a channel connecting the PC Testing Software to the common database hosted in CORTEX Grid. This connection allows for the exchange of information such as nameplates from the CORTEX Grid database to the exact field in the PC Testing software reducing the time required to enter nameplate information for testing

Enter the nameplate information once, integrate it for testing infinetly
Continuity is integrated in:

> CPXpert

Savings

> Fully equipped CPX 200 with High Current Module and HVX10
> The Annual Digital license for CPX 200 and CORTEX Grid enhance investment planning and ensure full functionality at all times.
> Benefit from continuous software improvements and new features included in future updates.

Tester Benefits

> Organizing current and future projects in a database that understands the testing domain
> Enhanced reporting: Unified and customizable asset reporting, generating a single report from multiple assets, tested across various software and devices.
> In-depth comparison: Comparing measurement results efficiently with other measurement data within the CORTEX Grid database
> Integrated backup: CORTEX Grid manages the history of testing information including versioning of asset nameplate information over time

CPX 200 Multifunctional Complete

CORTEX Grid Standard contract

> 1 × CORTEX Grid*
> ⚙ Configuration options for Microsoft Azure options
>> 20 GB (P0012232)
>> 50 GB (P0012233)
>> 100 GB (P0012234)

Digital License for CPX 200 contract (P0012356)

> 1 × Digital license for CPX 200* including:

Universal
> CPXpert Advanced
> Dissipation/Power Factor & Capacitance
> Insulation Resistance
> Quick

Power transformer
> TR Ratio
> TR Winding Resistance
> TR Demagnetization
> TR Short-circuit Impedance

Instrument transformer
> CT Ratio
> CT Winding Resistance & Demagnetization
> CT Burden
> CT Excitation
> CT Ratio Low-Power
> CT Ratio V
> VT Ratio
> VT Burden
> Polarity Check

Switchgear
> SG Timing
> SG Static Contact Resistance
> SG Coil Current
> SG Motor Current

✓ Future CPX 200 licenses will be included with the CPX 200 Digital License, once available

Hardware (P0012118)

1 × CPX 200
> 2 × Interlock key
> 1 × CPX 200 display cover
> 1 × Transport case for CPX 200 & HVX10
> 1 × Essential accessories for CPX 200 10 m (33 ft) cable configuration ℹ
> 2 × Multi-asset cable (4 pole, 15 m (50 ft), 2.5 mm² including 1 × carry bag)
> 1 × AC / DC current clamp E25 with integrated zero adjustment

1 × High Current Module integrated in CPX 200
> 1 × Essential accessories for High Current Module 9 m (30 ft) cable configuration ℹ
> 1 × Carry bag for high current module cables

1 × HVX10

1 × CPOL3 including case and accessories

* The CORTEX Grid and Annual Digital license for CPX 200 remain valid until the subscription is cancelled.

Tailored to your needs configuration

1.) Choose your CPX 200 Basic Package configuration

Device configuration	Package name	
CPX 200 with integrated High Current Module	**Package configuration 1** - P0011479:1-1-0 > 6 m (20 ft) essential accessories for CPX 200 > 9 m (30 ft) essential accessories for HCM > Quick license	**Package configuration 2** - P0011479:1-2-0 > 6 m (20 ft) essential accessories for CPX 200 > 9 m (30 ft) essential accessories for HCM > Quick license
	Package configuration 3 - P0011479:2-1-0 > 10 m (33 ft) essential accessories for CPX 200 > 6 m (20 ft) essential accessories for HCM > Quick license	**Package configuration 4** - P0011479:2-2-0 > 10 m (33 ft) essential accessories for CPX 200 > 9 m (30 ft) essential accessories for HCM > Quick license
CPX 200 without High Current Module	**Package configuration 5** - P0011479:1-0-0 > 6 m (20 ft) essential accessories for CPX 200 > Quick license	**Package configuration 6** - P0011479:2-0-0 > 10 m (33 ft) essential accessories for CPX 200 > Quick license

Variant	Configuration details	Products configuration
1 - x - x	6 m (20 ft) essential accessories for CPX 200	
2 - x - x	10 m (33 ft) essential accessories for CPX 200	
x - 1 - x	6 m (20 ft) essential accessories for High Current Module	
x - 2 - x	9 m (30 ft) essential accessories for High Current Module	

Tailored to your needs configuration

2.) Choose your CPX 200 companion devices

HVX10 upgrade option	CPOL3
P0011550	P0009398
The HVX10 is the high-voltage system component for the CPX 200. It enables dissipation/power factor and capacitance measurements, as well as insulation resistance measurements, extending the voltage ratio measurement on voltage transformers up to 10 kV. The HVX10 upgrade option includes a dedicated CPX/HVX10 transport case and all essential accessories for the HVX10.	CPOL3 is a portable, handheld device designed to identify the wiring and polarity of instrument transformers. It provides high sensitivity and accuracy and includes an oscilloscope mode for a graphical waveform display.

3.) Choose your CPX 200 software configuration

Tailor the CPX 200 Basic Package to your specific testing requirements by adding relevant software packages or licenses.

> See Software packages & licenses for CPX 200

4.) Optionally add further accessories

For specialized testing purposes, additional OMICRON accessories can be utilized together with the CPX 200 and HVX10.

> See Accessories for CPX 200
> See Accessories for HVX10

Power Transformer packages

	Item no.	Description
CPX 200 Power Transformer Essential	P0011557	**Hardware** 1 × CPX 200 **Software licenses** 1 × TR Ratio 1 × TR Winding Resistance 1 × TR Demagnetization 1 × Quick **Cables and accessories** 2 × Interlock key 1 × CPX 200 display cover 1 × Transport case for CPX 200 & HVX10 1 × Carry bag for multi asset cable 1 × Essential accessories for CPX 200 ⓘ 10 m (33 ft) cable configuration

CPX 200 Power Transformer Standard
+ includes CPX 200 Power Transformer Essential plus:
	P0011558	**Hardware**
		1 × High Current Module integrated in CPX 200 ⓘ
		
		Software licenses
		1 × CPXpert Advanced
		1 × TR Short-circuit Impedance
		
		Cables and accessories
		1 × Essential accessories for High Current Module ⓘ
		    9 m (30 ft) cable configuration
		2 × Multi-asset cable
		    (4 pole, 15 m (50 ft), 2.5 mm² including 1 × carry bag)

CPX 200 Power Transformer Enhanced + includes CPX 200 Power Transformer Standard plus:	P0011559	**Hardware** 1 × HVX10 ⓘ **Software licenses** 1 × Dissipation-/Power Factor & Capacitance 1 × Insulation Resistance **Cables and accessories** 1 × Essential accessories for HVX10 ⓘ

Transportation

> P0011075 - Two-Case Upgrade Option for CPX 200 and HVX10
> This upgrade option includes a transport case for the CPX 200 and HVX10, along with foam inlays for single device transportation of the CPX 200 and HVX10.

Instrument Transformer packages

	Item no.	Description

CPX 200 Instrument Transformer Essential

P0011554

Hardware
1 × CPX 200

Software licenses
1 × CT Ratio
1 × CT Winding Resistance with Demagnetization
1 × CT Burden
1 × Quick

Cables and accessories
2 × Interlock key
1 × CPX 200 display cover
1 × Transport case for CPX 200 & HVX10
1 × Essential accessories for CPX 200 🛈
    10 m (33 ft) cable configuration

CPX 200 Instrument Transformer Standard

+ includes CPX 200 Instrument Transformer Essential plus:

P0011555

Hardware
1 × High Current Module integrated in CPX 200 🛈
1 × CPOL3 including case and accessories

Software licenses
1 × CPXpert Advanced
1 × CT Excitation
1 × CT Ratio V
1 × CT Ratio Low-Power
1 × VT Ratio
1 × VT Burden
1 × Polarity Check

Cables and accessories
1 × Essential accessories for High Current Module 🛈
    9 m (30 ft) cable configuration
1 × AC / DC current clamp E25 with integrated zero adjustment

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CPX 200 Instrument Transformer Enhanced

+ includes CPX 200 Instrument Transformer Standard plus:

P0011556

Hardware
1 × HVX10 🛈

Software licenses
1 × Dissipation-/Power Factor & Capacitance
1 × Insulation Resistance

Cables and accessories
1 × Essential accessories for HVX10 🛈

Transportation

> P0011075 - Two-Case Upgrade Option for CPX 200 and HVX10
> This upgrade option includes a transport case for the CPX 200 and HVX10, along with foam inlays for single device transportation of the CPX 200 and HVX10.

Switchgear packages

	Item no.	Description
CPX 200 Switchgear Essential	P0011560	**Hardware** 1 × CPX 200

CPX 200 Switchgear Essential — P0011560

Hardware
1 × CPX 200

Software licenses
1 × SG Timing
1 × SG Static Contact Resistance
1 × Quick

Cables and accessories
2 × Interlock key
1 × CPX 200 display cover
1 × Transport case for CPX 200 & HVX10
1 × Essential accessories for CPX 200 ⓘ
    10 m (33 ft) cable configuration

CPX 200 Switchgear Standard — P0011562
+ includes CPX 200 Switchgear Essential plus:

Hardware
1 × High Current Module integrated in CPX 200 ⓘ

Software licenses
1 × CPXpert Advanced
1 × SG Coil Current
1 × SG Motor Current

Cables and accessories
1 × Essential accessories for High Current Module ⓘ
    9 m (30 ft) cable configuration
1 × Carry bag for multi asset cable
2 × Multi-asset cable
    (4 pole, 15 m (50 ft), 2.5 mm² including 1 × carry bag)
1 × AC / DC current clamp E25 with integrated zero adjustment

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CPX 200 Switchgear Enhanced — P0011563
+ includes CPX 200 Switchgear Standard plus:

Hardware
1 × HVX10 ⓘ

Software licenses
1 × Dissipation-/Power Factor & Capacitance
1 × Insulation Resistance

Cables and accessories
1 × Essential accessories for HVX10 ⓘ

Transportation

> P0011075 - Two-Case Upgrade Option for CPX 200 and HVX10
> This upgrade option includes a transport case for the CPX 200 and HVX10, along with foam inlays for single device transportation of the CPX 200 and HVX10.

HVX10 upgrade option

	Item no.	Description
HVX10 upgrade package 	P0011550	**Hardware** 1 × HVX10 **Cables and accessories** 1 × Transport case for CPX 200 & HVX10 Case configuration: including single usage foam inlay for HVX10 1 × Essential accessories for HVX10 ⓘ

Recommended product enhancements:

Software package

> P0009450 - Insulation diagnostic
> including Dissipation/Power Factor & Capacitance and Insulation Resistance software licences for CPX 200

Software licenses:

> P0008912 - Dissipation/Power Factor & Capacitance
> Software license in the CPX 200 that enables Dissipation/Power Factor & Capacitance measurements

> P0008925 - Insulation Resistance
> Software license in the CPX 200 that enables insulation resistance measurements

Cables and accessories

> P0008102 - Temperature and humidity sensor package
> Case containing an hygro- and thermometer to measure ambient temperature as well humidity of test objects
> B0802801 - Test hook
> Alternative high-voltage test object connection for HVX10.

Transportation

> P0010129 - CPX 200 and HVX10 backpack package
> The backpack is designed to carry both the CPX 200 and HVX10, making it ideal for covering longer distances or navigating uneven terrain during testing days.

Integrated* software enhancements:

Universal

> Quick: Enabling 10 kV AC/DC injection

Instrument transformer

> VT Ratio: Enabling 10 kV AC measurements
> Polarity check: Enabling 10 kV AC injection

* Using software enhancements requires the availability of the individual software licenses per CPX 200.

High Current Module upgrade option

	Item no.	Description
High Current Module upgrade option	P0011870	**Hardware** 1 × High Current Module installed into CPX 200 **Services** 1 × High Current Module installation by OMICRON certified service centers **Required accessories configuration (choose one):** ⓘ
	P0009168	1 × Essential accessories for High Current Module Cable configuration: 6 m (20 ft)
	P0009169	1 × Essential accessories for High Current Module Cable configuration: 9 m (30 ft)

Recommended product enhancements:

Software licenses:

> P0009026 - TR Winding Resistance
> Software license in the CPX 200 that enables power transformer winding resistance measurements

> P0009031 - SG Static Contact Resistance
> Software license in the CPX 200 that enables switchgear static contact resistance measurements

> P0008973 - CT Ratio
> Software license in the CPX 200 that enables current transformer ratio measurements

Cables and accessories

> B1225600 (M12), B1334400 (M14) or B1259800 (M16) – Kelvin screw
> When space constraints make using a clamp impractical, Kelvin screws offer an alternative method for wiring the switchgear contact resistance test with HC OUT (100A)

> P0010787 - Quick high current access connector with M12 thread package
> Offering an alternative connection option for the 1 000 A High Current Module cables by securing the access connector with an M12 threaded connection to the device under test.

Integrated* software enhancements:

Universal

> Quick: Enabling 1 kA AC/DC injection

Power transformer

> TR Winding Resistance: Enabling 100 A DC measurements

Instrument transformer

> CT Ratio: Enabling 1 kA AC measurements
> Polarity check: Enabling 1 kA AC injection

Switchgear

> SG Static Contact Resistance: Enabling 1 kA DC measurements

* Using software enhancements requires the availability of the individual software licenses per CPX 200.

Devices & Modules

	Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
	P0011479	CPX 200 (Basic package without High Current Module)	1x	1x	1x	1x	1x	1x	1x	–
		> Multifunctional test system CPX 200								
		> Quick test card (manual test set control)								
		> Essential accesory package according to page 14–15								
	P0011870	High Current Module (upgrade option)	–	1x	1x	1x	1x	1x	1x	–
		> Extention with 1 000 A AC/DC output capability					☐	☐	☐	
		> Essential accessory package according to page 17								
	P0011550	HVX10 (upgrade option)	–	–	1x	1x	1x	1x	1x	1x
		> Dissipation/Power factor and capacitance test unit					▲	▲	▲	
		> Insulation resistance test unit								
		> Essential accessory package according to page 20–21								
	P0009398	CPOL3	–	–	1x	1x	–	1x	–	–
		> Polarity tester						☐		
		> With integrated display for voltage and current readings								

■ included   ✸ configuration option   — not included
☐ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Essential accessories for CPX 200

	Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
	P0008225	Essential carry bag for CPX 200 / HVX10 accessories	1x	1x	1x	1x	1x	1x	1x	–
	B1890100	Kelvin clamps red > with 2 x 4 mm connector & 1 x 6 mm connector	4x	4x	4x	4x	4x	4x	4x	–
	B1890200	Kelvin clamps black > with 2 x 4 mm connector & 1 x 6 mm connector	4x	4x	4x	4x	4x	4x	4x	–
	B1889700	Grounding cable (green/yellow) > 6 m (20 ft), 6 mm² with connection clamp	1x	1x	1x	1x	1x	1x	1x	–
	E1664400	RJ45 ethernet cable > 3 m (10 ft)	1x	1x	1x	1x	1x	1x	1x	–
	E0897800	Soft bag red > 24 x 6 x 6 cm (W x H x D) > 9.5 x 2 x 2 in (W x H x D)	1x	1x	1x	1x	1x	1x	1x	–
	E0439201	Flexible terminal adapters (12 pcs)	1x	1x	1x	1x	1x	1x	1x	–
	E0343100	Test clip red > 32 A crocodile connector to 4 mm (0.16 in) female connector	1x	1x	1x	1x	1x	1x	1x	–
	E0678400	Test clip yellow > 32 A crocodile connector to 4 mm (0.16 in) female connector	1x	1x	1x	1x	1x	1x	1x	–
	E0678300	Test clip blue > 32 A crocodile connector to 4 mm (0.16 in) female connector	1x	1x	1x	1x	1x	1x	1x	–
	E0343600	Test clip black > 32 A crocodile connector to 4 mm (0.16 in) female connector	3x	3x	3x	3x	3x	3x	3x	–

■ included   ✹ configuration option   — not included
☐ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Essential accessories for CPX 200

	Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
	E0439300	Test lead black > 5.5 cm (2 in), 2.5 mm²	3x	3x	3x	3x	3x	3x	3x	–
	E1333600	Test lead red > 5.5 cm (2 in), 2.5 mm²	1x	1x	1x	1x	1x	1x	1x	1x
	E1333500	Test lead red > 25 cm (10 in), 2.5 mm²	1x	1x	1x	1x	1x	1x	1x	1x
	E0888100	Test lead black > 1 m (3 ft), 2.5 mm²	2x	2x	2x	2x	2x	2x	2x	–
	B1462400	Test lead red (short) > 6 m (20 ft), 2.5 mm²	6x ✳	6x ✳	6x ✳	6x ✳	6x ✳	6x ✳	6x ✳	–
	B1462700	Test lead black (short) > 6 m (20 ft), 2.5 mm²	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	–
	B1463000	Test lead red (long) > 10 m (33 ft), 2.5 mm²	6x ✳	6x ✳	6x ✳	6x ✳	6x ✳	6x ✳	6x ✳	–
	B1463300	Test lead black (long) > 10 m (33 ft), 2.5 mm²	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	–
	B1290200	Coaxial cables with separate ends and connectors (short) > 6 m (20 ft), 2.5 mm² > Splice: 2 x 15 cm (6 in)	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	–
	B1290300	Coaxial cables with separate ends and connectors (long) > 10 m (33 ft), 2.5 mm² > Splice: 1 x 15 cm & 1 x 150 cm (1 x 6 in & 1 x 59 in)	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	2x ✳	–

■ included   ✳ configuration option   — not included
□ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Power cords for CPX 200

	Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
	P0000280:AUS_NZL	C19 power cord for plug type I (Australia) > 2.5 m (8.20 ft), 1.5 mm²	1x power cord type per country is included1							–
	P0000280:BRA	C19 power cord for plug type N (Brasil) > 2.5 m (8.20 ft), 1.5 mm²	1x power cord type per country is included1							–
	P0000280:CHE	C19 power cord for plug type J (Swiss) > 2.5 m (8.20 ft), 1.5 mm²	1x power cord type per country is included1							–
	P0000280:DNK	C19 power cord for plug type K (Denmark) > 2.5 m (8.20 ft), 1.5 mm²	1x power cord type per country is included1							–
	P0000280:EU	C19 power cord for plug types E & F (Europe) > 2.5 m (8.20 ft), 1.5 mm²	1x power cord type per country is included1							–
	P0000280:GBR	C19 power cord for plug type G (UK, Honkong) > 2.5 m (8.20 ft), 1.5 mm²	1x power cord type per country is included1							–
	P0000280:open_end	C19 power cord (open end) > 2.5 m (8.20 ft), 1.5 mm², open ends	1x power cord type per country is included1							–
	P0000280:USA	C19 power cord for plug type B (USA, Japan) > 2.5 m (8.20 ft), 1.5 mm²	1x power cord type per country is included1							–
	P0000280:ZAF_IND	C19 power cord for plug type M (India, South Africa) > 2.5 m (8.20 ft), 1.5 mm²	1x power cord type per country is included1							–

1 the included power cord (1 x piece) depends on the end-user's country

	Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
	E0472902	Carry bag for accessories	–	1x	1x	1x	1x □	1x □	1x □	–
	B2166700	High Current Module clamps > for 1000 A AC/DC output	–	2x	2x	2x	2x □	2x □	2x □	–
	B1889400	100A High Current Module cable red > 15 m (50 ft), 16 mm²	–	1x	1x	1x	1x □	1x □	1x □	–
	B1889300	100A High Current Module cable black > 15 m (50 ft), 16 mm²	–	1x	1x	1x	1x □	1x □	1x □	–
	B2011800	1kA High Current Module cable red (short) > 6 m (20 ft), 95 mm²	–	1x ✳	1x ✳	1x ✳	1x ✳ □	1x ✳ □	1x ✳ □	–
	B2011900	1kA High Current Module cable black (short) > 6 m (20 ft), 95 mm²	–	1x ✳	1x ✳	1x ✳	1x ✳ □	1x ✳ □	1x ✳ □	–
	P0008811	1kA High Current Module cable red (long) > 9 m (30 ft), 95 mm²	–	1x ✳	1x ✳	1x ✳	1x ✳ □	1x ✳ □	1x ✳ □	–
	P0008812	1kA High Current Module cable black (long) > 9 m (30 ft), 95 mm²	–	1x ✳	1x ✳	1x ✳	1x ✳ □	1x ✳ □	1x ✳ □	–
	P0002765	High Current Module protection cap	–	2x	2x	2x	2x □	2x □	2x □	–
	P0010787	Quick high current access connector > 6 x 60 cm (6 x 23 in), connector with M12 thread > Connection point for 1 kA for High Current Module cables	–	–	–	–	–	–	–	–

■ included   ✳ configuration option   — not included
□ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Accessories for CPX 200

Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
P0008305	IINTERLOCK Key	2x	2x	2x	2x	2x	2x	2x	–
E0472902	Carry bag for Multi-asset cables	1x	1x	1x	1x	1x ☐	–	1x ☐	–
P0002454	Multi-asset cable with white labeled markers > 4 pole, 15 m (50 ft), 2.5 mm²	1x	1x	1x	1x	1x ☐	–	1x ☐	–
P0002455	Multi-asset cable with gray labeled markers > 4 pole, 15 m (50 ft), 2.5 mm²	1x	1x	1x	1x	1x ☐	–	1x ☐	–
P0008992	AC / DC current clamp E25 with integrated zero adjustment > up tp 60 A AC > up to 80 A DC	–	1x	1x	1x	–	1x ☐	1x ☐	–
P0002096	Transport case for CPX 200 & HVX10 (One-case)	1x	1x	1x	1x	1x	1x	1x	1x �ս
P0002073	CPX 200 display cover	1x	1x	1x	1x	1x	1x	1x	–
P0006305	Set of one red and one black battery clamp, > with 1 x 4 mm connector	–	–	–	–	–	–	–	–
B1009401	Y clamp > with 1 x 4 mm connector > alternative wiring option for switchgear testing	–	–	–	–	–	–	–	–
B0990501	Y clamp > with 1 x 6 mm connector > alternative wiring option for switchgear testing	–	–	–	–	–	–	–	–

■ included   ✱ configuration option   — not included
☐ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Accessories for CPX 200

	Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
	P0006366	Terminal adapter box for switchgear testing > with ISO and ANSI screw threads > 4mm connection adapters for cabinet terminals	–	–	–	–	–	–	–	–
	P0006367	Terminal adapter box for switchgear testing > with ISO screw threads > 4mm connection adapters for cabinet terminals	–	–	–	–	–	–	–	–
	P0002098	Single CPX 200 case foam inlay for CPX 200 transport case	2x	2x	–	–	2x ●	2x ●	2x ●	–
	E1931301	Exchange dust filter for CPX 200	–	–	–	–	–	–	–	–
	P0010655	CPX/HVX transport case spare key	–	–	–	–	–	–	–	–
	P0010129	CPX 200 and HVX10 backpack package	–	–	–	–	–	–	–	–
	P0008490	Backpack part/Carry bag for CPX 200 > Can be used as standalone CPX 200 device carry bag without requiring the HVX10 backpack part and the backpack straps > Dedicated shoulder strap for carrying is included	–	–	–	–	–	–	–	–
	P0008492	Backpack straps for CPX 200 and HVX10 > 1 x pair of backpack straps for the combined usage of the CPX 200 & HVX10 backpack parts as backpack	–	–	–	–	–	–	–	–
	P0010769	Fuse spare part package > 4 x spare part fuses for CPX 200 I IN 1 and I IN 2 current input protection	–	–	–	–	–	–	–	–
	P0009487	CPX 200 Getting Started (124603)	1x	1x	1x	1x	1x	1x	1x	–

■ included   ✳ configuration option   — not included

□ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Accessories for CPX 200

Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
B1225600	Kelvin screw M12	–	–	–	–	–	–	–	–
B1334400	Kelvin screw M14	–	–	–	–	–	–	–	–
B1259800	Kelvin screw M16	–	–	–	–	–	–	–	–
B0377300	Transport case with wheels for CPX 200 accessories This transport case is ideal when high-current cables and multi-asset cables should be shipped instead of the carry bag.	–	–	–	–	–	–	–	–
P0007627	OSA1 carry bag	–	–	–	–	–	–	–	–

■ included   ✺ configuration option   — not included
☐ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Essential accessories for HVX10

	Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
	P0008225	Essential carry bag for CPX 200 / HVX10 accessories	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B1855902	High voltage test lead for HV OUT > 20 m (65 ft)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B2042200	Test lead red for IN A > 20 m (65 ft)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B2011301	Test lead yellow for IN B > 20 m (65 ft)	—	—	1x	1x	1x ▲	1x ▲	**1x** ▲	1x
	B2042300	Test lead blue for IN C > 20 m (65 ft)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B2011201	Test lead black for IN D > 20 m (65 ft)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B0510401	High voltage clamp	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B1803800	Measurement grounding cable (violett) 6 m (20 ft), 6 mm² with connection clamp	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B0349602	Booster cable (short) 0.5 m (1.6 ft)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B2011601	Booster cable (long) 6 m (20 ft)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B1889900	EtherCAT® cable 0.5 m (1.6 ft)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x

■ included   ✴ configuration option   — not included
☐ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

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Essential accessories for HVX10

	Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
	B0889301	EtherCAT® cable 6 m (20 ft)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	E0897800	Soft bag red 24 x 6 x 6 cm (W x H x D) (9.5 x 2 x 2 in)	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B0594602	High voltage test lead to 4 mm adapter	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	E0688200	Braid wire reel with 25 m (82 ft), 0.5 mm²	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	E1761800	4 mm bushing tap adapter red	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	P0009425	4 mm bushing tap adapter yellow	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	E1761900	4 mm bushing tap adapter blue	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	P0009424	4 mm bushing tap adapter black	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	B0649200	Hot collar band	—	—	1x	1x	1x ▲	1x ▲	1x ▲	1x
	E0542901	4 mm bushing tap adapters with 1x retractable shrouded connector & 1x shrouded connector	—	—	4x	4x	4x ▲	4x ▲	4x ▲	4x

■ included   ✱ configuration option   — not included
☐ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Accessories for HVX10

Item no.	Description	Multifunctional Essential	Multifunctional Standard	Multifunctional Enhanced	Multifunctional Complete	Power Transformer Line	Instrument Transformer Line	Switchgear Line	HVX10 Upgrade Option
P0002096	Transport case for CPX 200 & HVX10 (One-case)	–	–	–	–	–	–	–	1x
P0002097	Single HVX10 case foam inlay for CPX 200 / HVX10 transport case	–	–	–	–	–	–	–	2x
P0011075	Two-Case Upgrade Option for CPX 200 and HVX10	–	–	–	–	–	–	–	–
P0006294	Bushing adapter set	–	–	–	–	–	–	–	–
P0008102	Temperature and humidity sensor package	–	–	–	–	–	–	–	–
B0802801	Test hook for HVX10	–	–	–	–	–	–	–	–
P0008491	Backpack part / Carry bag for HVX10 Can be used as standalone HVX10 device carry bag without requiring the CPX 200 backpack part and the backpack straps Dedicated shoulder strap for carrying is included	–	–	–	–	–	–	–	–
P0010620	HVX10 Getting Started (129603)	–	–	1x	1x	1x ▲	1x ▲	1x ▲	1x

■ included   ✿ configuration option   – not included
☐ in Standard & Enhanced tier   ▲ in Enhanced tier   ● in Essential & Standard tier

Software packages & licenses

CPX 200 software packages			CPX 200 software licences
Multifunctional essential software package Item no.: P0009926	Universal		
		Quick	P0008917 (Always included)
	Power transformer essential software package Item no.: P0009447		
		TR Ratio	P0009025
		TR Winding Resistance	P0009026
		Demagnetization	P0008980
	Instrument transformer essential software package Item no.: P0009924		
		CT Ratio	P0008973
		CT Burden	P0008971
		CT Winding Resistance & Demagnetization	P0008976
	Switchgear essential software package Item no.: P0009448		
		SG Timing	P0009032
		SG Static Contact Resistance	P0009031
Multifunctional standard software package Item no.: P0009927	Universal		
		CPXpert Advanced	P0008921
	Power transformer standard software package Item no.: P0010342		
		TR Short-circuit Impedance	P0010340
	Instrument transformer standard software package Item no.: P0009925		
		CT Excitation	P0008972
		CT Ratio Low-Power	P0008975
		CT Ratio V	P0008974
		VT Ratio	P0008978
		VT Burden	P0008977
		Polarity Check	P0008970
	Switchgear standard software package Item no.: P0009449		
		SG Coil Current	P0009413
		SG Motor Current	P0009029
Multifunctional enhanced software package Item no.: P0009110	**Insulation diagnostic software package** Item no.: P0009450		
		Dissipation/Power Factor & Capacitance	P0008923
		Insulation Resistance	P0008925

Annual Digital License for CPX 200 (P0012356)
This license is exclusively available within the Multifunctional Complete Software Package and operates on a yearly subscription basis. All current and future licenses will be included, once available.

Software packages & licenses

Software package & licenses use-cases

CPX 200 software packages

For both multifunctional and application-specific package lines, matching software licenses are available per tier as standalone packages. The package savings mentioned in the Overview package option also apply to these software packages.

This option can also be considered when an application-specific package needs to be enhanced with a second application.

CPX 200 software licenses

Each CPX 200 license can be acquired individually. Consider purchasing individual software licenses to meet specific testing needs or upgrade to the next tier within the same application in the future.

Software package savings

	Essential	Standard includes Essential tier plus:	Enhanced includes Standard tier plus:
Multifunctional	~10 %	~15 %	~20 %
Power Transformer	~5 %	~10 %	~15 %
Instrument Transformer	~5 %	~10 %	~15 %
Switchgear	~5 %	~10 %	~15 %

CORTEX Grid packages

CORTEX Grid Standard package is available as standalone option for the CPX 200 and other products running on Primary Test Manager™ (PTM) or CT Analyzer Suite. Additionally, CORTEX Grid is included with the CPX 200 Multifunctional Complete Package.

	Standard
Data Consolidation and Management	
Consolidation: Gather data from PC testing software (PTM, CPXpert, CTA Suite)	✅
Conflict Resolution: Handle inconsistencies or discrepancies between data points	✅
Backup: Ensure data integrity with regular backups	✅
Template Distribution: Streamline test processes by distributing standardized test templates	✅
Project Tracking: Monitor project progress, deadlines, and resource allocation effectively	✅
OMICRON Continuity: Connect PC testing software to CORTEX Grid	✅
Scalable Storage*: Offers flexible storage options	✅
Data Assessment and Reporting (coming soon)	
Visualization: Customize visualizations (charts, graphs) to effectively present results	✅
Reporting Workflow: Configure and automate report generation and distribution processes	✅
Data Visualization & Trending: Identify patterns, trends, and anomalies within the data	✅
Standards Compliance: Assess results against relevant international standards	✅
Phase-to-Phase Analysis: Conduct thorough comparisons of phase-to-phase comparison	✅
FAT Benchmarking: Compare benchmark results with Factory Acceptance Test (FAT) results	✅
Database Benchmarking: Compare and analyze results against the asset fleet	✅
Report Approval: Streamlined workflow for efficient review and approval of reports	✅
Report Generation: Generate comprehensive reports for single and multi-asset assessments	✅

* Choose between 20 GB, 50 GB or 100 GB Microsoft Azure storage capacity.

CORTEX Grid hosting options

All CORTEX Grid tiers are available in three sizes

Small	**Medium**	**Large**
20 GB of Storage	**50 GB of Storage**	**100 GB of Storage**
Recommended for:	**Recommended for:**	**Recommended for:**
> Startups & Small Teams	> Growing Teams	> Large Teams & High Volume Testers
> 1–10 Users	> 10–25 Users	> > 25 Users
> ~50 Assets tested/year*	> ~100 Assets tested/year*	> > 100 Assets tested/year*
Item no.: P0012232	**Item no.: P0012233**	**Item no.: P0012234**
CORTEX Grid Standard - Small	CORTEX Grid Standard - Medium	CORTEX Grid Standard - Large

For your hosting, you can select an Azure datacenter location that best suits your needs. More information about available data centers can be found on the Microsoft Datacenter website: https://datacenters.microsoft.com/globe/explore/

* Including photos and attachments.

Accessory packages

Item no.	Description	Content
P0009474	Essential accessories for CPX 200 > 6 m (20 ft) configura tion option	see page 14–15
P0009475	Essential accessories for CPX 200 > 1 0m (33 ft) configuration option	see page 14–15
P0009168	Essential accessories for High Current Module > 6 m (20 ft) configuration option	see page 17
P0009169	Essential accessories for High Current Module > 9 m (30 ft) configuration option	see page 17
P0009476	Essential accessories for HVX10	see page 20–21
P0000133	100A High Current Module cable set > 15 m (50 ft), 16 mm²	> 1×B1889400 > 1×B1889300
P0009096	1kA High Current Module cable set > 6 m (20 ft), 95 mm²	> 1×B1988800 > 1×B1988900
P0009097	1kA High Current Module cable set > 9 m (30 ft), 95 mm²	> 1×P0008811 > 1×P0008812
P0000134	HVX low voltage cable set > 20 m (65 ft)	> 1×B2042200 > 1×B2011301 > 1×B2042300 > 1×B2011201
P0010947	Multi-asset cable package > 2×15 m (2 x 50 ft), 4 x 2,5 m² mulit-asset cables > 1×transport carry bag	> 1×P0002454 > 1×P0002455 > 1×E0472902

OMICRON is an international company that works passionately on ideas for making electric power systems safe, secure, and reliable. Our pioneering solutions are designed to meet our industry's current and future challenges. We always go the extra mile to empower our customers: we react to their needs, provide extraordinary local support, and share our expertise.

Within the OMICRON group, we research and develop innovative technologies for all fields in electric power systems. Customers worldwide rely on the accuracy, speed, and quality of our reliable, user-friendly solutions for electrical testing of medium- and high-voltage equipment, protection systems, digital substations, and cybersecurity.

Founded in 1984, OMICRON draws on their decades of profound expertise in the field of electric power engineering. A dedicated team of more than 1,300 employees provides solutions with 24/7 support at 23 locations worldwide and serves customers in more than 170 countries.

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