



# IBM Parallel Environment Developer Edition for Linux on Power , V1.1 offers an Eclipse-based application development environment and performance tools

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## At a glance

IBM® Parallel Environment (IBM PE) Developer Edition for Linux™ on Power®, V1.1.1 provides an Eclipse-based integrated development environment (IDE).

- Improves parallel application developer productivity throughout the edit, compile, debug, and run development cycle
- Includes an integrated set of performance analysis tools that helps the application developer tune a serial or parallel application

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: RE001).

## Overview

IBM PE Developer Edition provides an integrated development environment combining open source tools and IBM proprietary tools to satisfy the following requirements:

- Edit, compile, run, and debug an application.
- Perform static analysis of the application to find common programming problems.
- Analyze application performance for serial and parallel applications.
- Easily run and debug parallel applications using IBM PE interactively.
- Submit batch serial or parallel jobs to IBM LoadLeveler®.

IBM PE Developer Edition consists of two major components that are integrated together:

- A workbench component that runs on a desktop or laptop.
- A server component that runs on select IBM Power Systems™ and IBM PureFlex Systems servers

The workbench component contains an industry standard, state-of-the-art workbench client IDE for enhancing the productivity of high performance and technical computing programmers.

The server component contains the IBM High Performance Computing (HPC) Toolkit, which is used to analyze and tune the performance of application programs. It also contains Scalable Communication Infrastructure (SCI), which is a communication

library and run time for a tools developer to use as infrastructure in developing scalable tools.

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## Key prerequisites

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- IBM Power Systems (POWER7®)
- IBM PureFlex Systems (POWER7)
- Red Hat Enterprise Linux (RHEL) 6.2

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## Planned availability date

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April 27, 2012

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## Description

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The integrated development environment (IDE) is an Eclipse PTP-based development environment that lets developers edit, compile, run, and debug their applications all from within the framework. The IDE editor increases developer productivity with coding assist tools such as interactive code completion and syntax-directed highlighting of source code.

The performance analysis tools integrated with the IDE help developers locate performance problems in their application code, including tools to analyze CPU resource usage, MPI profiling and tracing, OpenMP profiling, and I/O profiling.

These performance management tools may improve systems availability. Performance management tools allow you to optimize the use of computing resources, thereby protecting those investments. The performance tools provided by IBM PE Developer Edition can help you understand the utilization of system resources concurrently so you can balance your workloads or tune programs. By maximizing system resource utilization, you can optimize your system and network performance.

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### Accessibility by people with disabilities

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A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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### Section 508 of the US Rehabilitation Act

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IBM PE Developer Edition for Linux on Power is capable as of April 27, 2012, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following website

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

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## Program number

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Program number	VRM	Program name
5765-PDP	1.1.1	IBM PE Developer Edition for Linux on Power

## Product identification number

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Program PID number	Maintenance	Maintenance
	1-year PID number	3-year PID number
5765-PDP	5660-PDP 5661-PDP	5663-PDP 5664-PDP 5662-PDP

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## Electronic Software Update Orders

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Entitled Software Update (ESU) is a way for customers to self order their Power software release upgrades via the Entitled Software Support (ESS) website without the need to go to their seller to place the upgrade order. Entitled Software Update (ESU) orders for Electronic Software Delivery (ESD) is now available in all countries.

ESU orders for software will be placed on the Entitled Software Support (ESS) website

<https://www-05.ibm.com/servers/eserver/ess/OpenServlet.wss>

Customers should generally select electronic delivery when ordering via ESU, but do have the ability to select physical delivery. Programs ordered for ESD will have the same download images provided as on the CD media shipped for physical orders. Countries requiring physical delivery of License Information documentation will have these documents shipped separately. This physical shipment will not delay the immediate availability of the ESD images for customer download.

ESD customers placing ESD software orders will receive an email with the software order information. The ESU customer will be able to immediately proceed to the Downloads website for program access, instead of waiting for delivery of a physical package shipped from IBM.

Customers choosing physical delivery will also have the electronic images available for ESD download.

- ESD help (instructions on how to use)  
[http://www.ibm.com/systems/support/software/delivery/en\\_US/downloadinfo.html](http://www.ibm.com/systems/support/software/delivery/en_US/downloadinfo.html)
- ESD sign-in (must have Customer number and Product software entitlements to get in)  
<https://www.ibm.com/servers/eserver/ess/OpenServlet.wss>
- List of Power software products that are available for electronic download  
[http://www.ibm.com/systems/support/software/delivery/en\\_US/supportedproducts.html](http://www.ibm.com/systems/support/software/delivery/en_US/supportedproducts.html)

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## Offering Information

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Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

### Business Partner information

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If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld® ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=212-078>

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## Publications

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Publications for IBM PE Developer Edition are shipped with the product.

The Eclipse Parallel Tools Platform Installation Guide is included on the product media.

The IBM High Performance Computing Toolkit Installation and User Guide and the Eclipse Parallel Tools Platform Installation guide are available from the HPC Central website in the documentation section

<http://www.ibm.com/developerworks/wikis/display/hpccentral/HPC%20Central>

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

For IBM PE Developer Edition server function, one of the following:

- IBM PureFlex System p260 and p460 compute nodes (based on POWER7 technology) with PureFlex System IB6132 2-port QDR InfiniBand adapters interconnected using the PureFlex System IB6131 InfiniBand Switch and optionally the IBM QDR Mellanox external switch
- Stand-alone POWER7 clusters or POWER7 clusters connected with a LAN supporting IP

For IBM PE Developer Edition client function:

- Any hardware capable of running Java™ 1.6, or later, on the supported operating systems listed in the [Software requirements](#) section with a minimum of 2 GB memory; 4 GB memory and 500 MB free disk space recommended

**Note:** For supported levels, compatibility, and limitations regarding InfiniBand switch support, refer to the readme located under documentation and *IBM High Performance Computing Clusters Service Packs* at

<https://www.ibm.com/developerworks/wikis/display/hpccentral/HPC+Central>

#### **Software requirements**

IBM PE Developer Edition server function:

- Red Hat Enterprise Linux 6.2.
- To run parallel operating environment jobs, IBM PE Runtime Edition for Linux on Power V1.2 is required.
- To run batch Parallel Operating Environment jobs, LoadLeveler for Linux on Power V5.1 is required.

IBM PE Developer Edition client function (one of the following):

- Microsoft™ Windows™ XP (32 bit)
- Microsoft Windows 7 (32 bit)
- Red Hat Enterprise Edition (RHEL) 5 (32 bit or 64 bit)
- RHEL 6 (32 bit or 64 bit)
- SUSE Linux Enterprise Server (SLES) 10 (32 bit or 64 bit)
- SLES 11 (32 bit or 64 bit)
- Apple Mac OS X 10.6 (32 bit or 64 bit)

**Note:** The Windows and Linux operating systems require Java runtime 6.0.9, provided with IBM PE Developer Edition. Mac OS will use the Java runtime 1.6.0.24, or later, distributed with the Mac OS X operating system.

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

### ***Companion products***

The following products could be purchased with this product:

- IBM LoadLeveler for Linux on Power V5.1  
PROG. provides support for users to invoke Parallel Environment applications interactively, optionally using LoadLeveler to manage resource allocation, and to allow users to submit batch jobs to LoadLeveler.
- IBM Parallel Environment Runtime Edition for Linux on Power V1.2  
For users looking to run or debug any parallel application using IBM PE Message Passing Interface.

### ***Limitations***

IBM PE Developer Edition for Linux on Power V1.2 is not supported running on the IBM Power 775.

### ***Planning information***

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#### ***Packaging***

IBM PE Developer Edition is distributed as a single package available via DVD media with the following:

- IBM International Program License Agreement in multilanguage booklet (LC23-5123) and its License Information (L-RHAN-8KEP76) in multiple languages (ppe.loc.license)
- Product readme file that describes the program's specified operating environment and program specifications
- Documentation for the HPC Toolkit (hpct\_guide.pdf)
- Installation document for Eclipse PTP (ptp\_inst\_guide.pdf)
- Program images:
  - PTP Eclipse (ppedev.ptp, ppedev.ptp.rte)
  - HPC Toolkit (ppedev.hpct, ppedev.rte)

### ***Security, auditability, and control***

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IBM PE Developer Edition for Linux on Power uses the security and auditability features of the system on which it is installed.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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## **Software Services**

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IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach

through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

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## Ordering information

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### Charge metric

Program name	Part number or PID number	Charge metric
IBM PE Developer Edition for Linux (server)	5765-PDP	Per install - small, medium, or large server including one year SWMA
1-year SWMA: Registration and Renewal	5660-PDP	Per install - small, medium, or large server
1-year SWMA: After-license	5661-PDP	Per install - small, medium, or large server
3-year SWMA: Registration	5662-PDP	Per install - small, medium, or large server
3-year SWMA: Renewal	5663-PDP	Per install - small, medium, or large server
3-year SWMA: After-license	5664-PDP	Per install - small, medium, or large server

Program name	Part number or PID number	Charge metric
IBM PE Developer Edition for Linux (client)	5765-PDP	Per install - including one year SWMA
1-year SWMA: Registration and Renewal	5660-PDP	Per install
1-year SWMA: After-license	5661-PDP	Per install
3-year SWMA: Registration	5662-PDP	Per install
3-year SWMA: Renewal	5663-PDP	Per install
3-year SWMA: After-license	5664-PDP	Per install

### Install

Install is a unit of measure by which the program can be licensed. An *install* is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. Licensee must obtain an entitlement for each install of the program.

5765-PDP - IBM PE Developer Edition for Linux on Power, V1

Basic license one-time charge

Feature description	Feature number
5765-PDP	
Per install w 1yr SWMA-workbench (client)	0001
Per install w 1yr SWMA-small toolkit (server)	0002
Per install w 1yr SWMA-medium toolkit (server)	0003
Per install w 1yr SWMA-large toolkit (server)	0004

This software license includes Software Maintenance, previously referred to as Software Subscription and Technical Support.

Extending coverage for a total of three years from the date of acquisition may be elected. Order the program number, feature number, and quantity to extend coverage for your software licenses. If maintenance has expired, specify the after-license feature number.

Software license includes 1 year Software Maintenance  
5765-PDP - IBM PE Developer Edition for Linux on Power V1

Program number	Program name	Feature number
5660-PDP	Maintenance no-charge 1-year registration	
	Per client install	1823
	Small per toolkit install	1826
	Medium per toolkit install	1827
	Large per toolkit install	1828
5660-PDP	Maintenance 1-year 24 x 7 support	
	Per client install	1825
	Small per toolkit install	1830
	Medium per toolkit install	1832
	Large per toolkit install	1834
5662-PDP	Maintenance 3-year registration	
	Per client install	1009
	Small per toolkit install	1011
	Medium per toolkit install	1012
	Large per toolkit install	1013
5662-PDP	Maintenance 3-year 24 x 7 support	
	Per client install	1010
	Small per toolkit install	1015
	Medium per toolkit install	1017
	Large per toolkit install	1019
5661-PDP	1-year Software Maintenance after-license	
	Per client install	0688
	Small per toolkit install	0690
	Medium per toolkit install	0691
	Large per toolkit install	0692
5661-PDP	After-license 1-year 24 x 7 support	
	Per client install	0689
	Small per toolkit install	0694
	Medium per toolkit install	0696
	Large per toolkit install	0698
5664-PDP	3-year Software Maintenance after-license	
	Per client install	0001
	Small per toolkit install	0002

Medium per toolkit install	0003
Large per toolkit install	0004
5664-PDP      After-license 3-year 24 x 7 support	
Per client install	0010
Small per toolkit install	0007
Medium per toolkit install	0009
Large per toolkit install	0011

**System Program Order (SPO):** An order for SPO 5692-LOP is mandatory for shipments of program distribution. The individual licensed program orders are for registration and billing purposes only. No shipment occurs under these orders.

To receive shipment of machine-readable materials the order needs to include SPO 5692-LOP for IBM PE Developer Edition for Linux on Power. The individual licensed program order (for example, 5765-PDP) must still be ordered but will be for registration and billing purposes only and will not result in shipment of materials.

Program number	Program/Function name	Feature number
5692-LOP	IBM PE Developer Edition for Linux on Power, v1.1.1	2373

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## Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

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These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

### ***License Information form number***

L-RHAN-8RWRR6



The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

***Limited warranty applies***

Yes

***Limited warranty***

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

<http://www.ibm.com/support/handbook>

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

***Money-back guarantee***

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

***Volume orders (IVO)***

Yes. Contact your IBM representative.

***Passport Advantage applies***

No

***Software Subscription and Support applies***

Yes. All entitled software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, consult your IBM Software Support Handbook at

<http://www.ibm.com/support/handbook>

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***IBM Operational Support Services -- SoftwareXcel***

No

***Other support***

Power Systems SWMA

***System i Software Maintenance applies***

No

***Variable charges apply***

No

***Educational allowance available***

Yes. A 15% education allowance applies to qualified education institution customers.

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## **IBM Electronic Services**

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IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

<http://www.ibm.com/support/electronic>

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## **Prices**

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For additional information and current prices, contact your local IBM representative.

Information on charges is available at

Choose the option entitled Purchase/upgrade tools.

Program name: IBM PE Developer Edition for Linux on Power, V1

Type-model number	Order type	One-time charge Feature number
5765-PDP		
	Per install - workbench (client)	0001
	Per install - small toolkit (server)	0002
	Per install - medium toolkit (server)	0003
	Per install - large toolkit (server)	0004

Type-model number	Order type	One-time charge Feature number
5660-PDP	Maintenance no-charge 1-year registration	
	Per client install	1823
	Small per toolkit install	1826
	Medium per toolkit install	1827
	Large per toolkit install	1828

5660-PDP	Maintenance 1-year 24 x 7 support	
	Per client install	1825
	Small per toolkit install	1830
	Medium per toolkit install	1832
	Large per toolkit install	1834

5662-PDP	Maintenance 3-year registration	
	Per client install	1009
	Small per toolkit install	1011
	Medium per toolkit install	1012
	Large per toolkit install	1013

5662-PDP	Maintenance 3-year 24 x 7 support	
	Per client install	1010
	Small per toolkit install	1015
	Medium per toolkit install	1017
	Large per toolkit install	1019

5661-PDP	1-year Software Maintenance after-license	
	Per client install	0688
	Small per toolkit install	0690
	Medium per toolkit install	0691
	Large per toolkit install	0692

5661-PDP	After-license 1-year 24 x 7 support	
	Per client install	0689
	Small per toolkit install	0694
	Medium per toolkit install	0696
	Large per toolkit install	0698

5664-PDP	3-year Software Maintenance after-license	
	Per client install	0001
	Small per toolkit install	0002

	Medium per toolkit install	0003
	Large per toolkit install	0004
5664-PDP	After-license 3-year 24 x 7 support	
	Per client install	0010
	Small per toolkit install	0007
	Medium per toolkit install	0009
	Large per toolkit install	0011

## Pricing terms

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Prices in the following PDF prices link are suggested list prices on day of announcement for the US only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-212-078-LIST\\_PRICES\\_2012\\_04\\_11.PDF](#)

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 Fax: 800-2IBM-FAX (242-6329)  
 For IBM representative: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
 For IBM Business Partner: [pwswna@us.ibm.com](mailto:pwswna@us.ibm.com)  
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 Canada  
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Reference: RE001

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**Note:** Shipments will begin after the planned availability date.

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