

Eaton 9PXM UPS

A scalable, modular, flexible solution for a wide range of applications.

Plan > Grow > Manage



Powering Business Worldwide



Highest level of reliability. Lowest cost of ownership.

The Eaton® 9PXM UPS is a scalable, modular, flexible solution that combines the highest level of reliability with the lowest cost of ownership in the 4–20 kVA range. The 9PXM enables you to build a power solution specific to your needs, and to expand redundancy and runtime as your needs change.

The plug-and-play power and battery modules are user replaceable so customers can add them as needed without a service call or having to put a redundant system in bypass. With its low initial investment, online double-conversion technology, Eaton ABM® technology and high efficiency mode, you never have to compromise reliability for efficiency.



Easy hot-swappable power and battery modules

Versatile data center applications



The versatile 9PXM is well suited for both the IT marketplace and for Industrial/commercial applications. The 9PXM's high power rating, small footprint and easy rack conversion make an ideal solution for an array of data center applications. The design features offer harmonious compatibility with 4-post or high density racks, PDU and network gear for seamless integration into an IT infrastructure.

IT applications include:

Small / Medium Data Center

Colocation Data Center

Edge Data Center

Network Closets

The 9PXM is rugged enough to stand up to mission critical applications, and its small footprint, customizable output options and N+X redundancy are valuable features in the retail/financial and government sectors.

Industrial/commercial applications include:



Mission critical operations

- Small computer rooms
- Server farms
- 911 call centers



Retail/Financial

- POS equipment
- Banking automaton software systems
- Retail back office inventory management systems

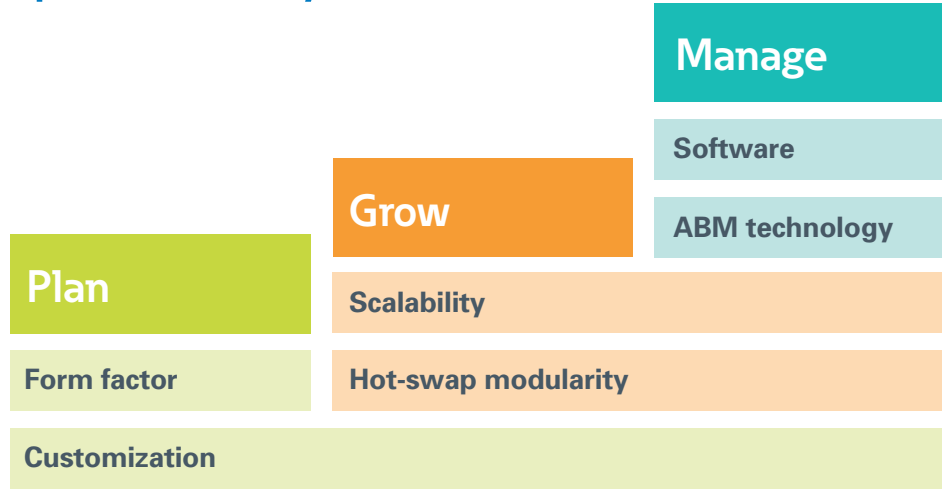


Government

- Voice and data networks/closets
- Government computer rooms
- School system computer rooms/classrooms

Eaton 9PXM UPS

Build a power solution that is specific for your needs.



Flexibility for every application.



- 1 Form factor:** Two tower sizes convertible to rackmount.
- 2 Configurable back panel:** Build-to-order configurations provide receptacle output options.
- 3 Redundancy:** N+X redundancy for power and logic eliminates system-level single point of failure.
- 4 Scalability:** Add power and battery modules to scale up power rating or add redundancy.
- 5 Flexibility:** Add battery modules to any slot for extended back up runtime in a single unit cabinet.
- 6 Hot-swappable modules:** Lightweight power and battery modules allow users to replace without shutting down.



Power module



Battery module



Intelligent Power Manager

Automate and control

IPM is an on-site policy-based automation software platform that triggers advanced remediation actions—like shedding non-critical workloads to extend battery runtime—during a power event to ensure that critical equipment remains running as long as possible.

In other words, IPM automatically takes action when it notices something awry—once configuration and action policies are set, IPM does the work. This increases uptime and saves time and money by allowing you to remotely solve power issues.

[Learn more at Eaton.com/IPM](http://Eaton.com/IPM)

Visual Power Manager

Monitor IT power infrastructure

VPM excels at remotely monitoring large and distributed deployments of power devices. The easy-to-use, visual interface provides a live floorplan view with alarm notifications for up-to-the-minute health status on your power infrastructure.

Use VPM to better visualize your power infrastructure allowing you to take action as needed to maintain continuous uptime of your critical applications.

[Learn more at Eaton.com/VPM](http://Eaton.com/VPM)

Visual Capacity Optimization Manager

Monitor IT and facilities power infrastructure

VCOM, our data center system optimization (DCSO) platform, provides our greatest level of business intelligence by monitoring both IT and facilities power infrastructure which makes it ideal for large or multisite management.

VCOM features capabilities designed to reduce data center operational expenses, improve system and application reliability and mitigate risk through data analysis.

[Learn more at Eaton.com/VCOM](http://Eaton.com/VCOM)

How to configure your unit

Select a configure-to-order (CTO) number to reflect the cabinet form factor and output configurations.

As you select the options needed, they will become part of the CTO number. Order power modules, battery modules, external battery cabinets, bypass switches and other external options as separate line items. Part numbers for external options are provided in the CTO guide.

Output connection configuration is designated by five digits within the unit CTO number.

These 5 digits allow selection of the type and quantity for up to a maximum of 5 different types of receptacles. For hardwired output, use AAAAAA for a 12-slot cabinet and AAXXX for an 8-slot.

- **8-slot cabinet** maximum 2-outlet output panels
- **12-slot cabinet** maximum of 5-outlet output panels
- **Outlet quantities per panel are pre-set**
- **Enter desired outlet configuration from bottom to top** (digit 9 of the CTO number will be installed in the bottom outlet panel, digit 10 in the panel above it, etc)
- **For an 8-slot cabinet**, digits 9–11 will always be XXX (ex: BE XXX)

How to build your CTO number

9PXM08AAXXX

Base unit		Cabinet style		Output connections		
Base model – (digits 1-4)	CTO order code	Cabinet size – (digits 5-6)	CTO order code	Options	Outlets per panel	CTO order code
9PXM	9PXM	8-slot cabinet	08	Blank	0	A
		12-slot cabinet	12	5-20R	4	B
				C13	8	C
				C19	4	D
				L5-20R	2	E
				L6-20R	2	F
				L5-30R	2	G
				L6-30R	2	H
				L14-30R	2	J
				IEC309	1	K

Scalable to 20 kVA (N+1)

- 8-slot is scalable 16 kVA in a 14U cabinet
- 12-slot is scalable to 20 kVA (N+1) in a 21U cabinet

Variety of power distribution options

- Hardwire and connect with an Eaton rack PDU
- Create custom outlet configuration for output
- Bypass power module configured for any application
- External battery cabinet for extended runtime

Design benefits

- Easy conversion from tower to rackmount
- Single frame cabinet
- Hot-swappable power and battery modules
- ABM technology. It's not just for battery monitoring. Main value prop is that it increases battery service life by 50%
- Two communications ports system monitoring
- Higher efficiency mode increases from normal operating efficiency of 94 to 97 percent efficiency



8-slot cabinet is scalable to 16 kVA in a 14U cabinet



12-slot cabinet is scalable to 20 kVA (N + 1) in a 21U cabinet

External options

External options are ordered as separate line items including:

- Power modules
- Battery packs
- External battery cabinets
- Bypass switches
- Other external options

Power modules		
Type	Description	Catalog number
Split-phase	4 kVA / 3.6 kVA	9PXMSPPM

Batteries and battery accessories	
Description	Catalog number
Battery module (two required per string)	9PXMBAT
20-amp optional charger module ¹	9PXMCHGR
8-slot external battery enclosure	9PXM08SEBM
12-slot external battery enclosure	9PXM12SEBM

¹ Same form factor as power module

External bypass power module		
Cabinet description	Receptacle configuration	Catalog number
125A	None	BPM125HW
	(6) L14-30R	BPM125AR
	(3) L14-30R, (3) L6-20R	BPM125BR
	(6) C19, (3) L14-30R	BPM125CR
	(3) 5-20R, (3) L14-30R	BPM125DR
	(3) 5-20R, (3) L6-30R	BPM125ER
	(3) L6-30R, (3) L6-20R	BPM125FR

Other external options	
Description	Catalog number
Rackmount kit	9PXM RK
Caster kit	9PXM CAS
Floor anchoring kit	9PXM FAK

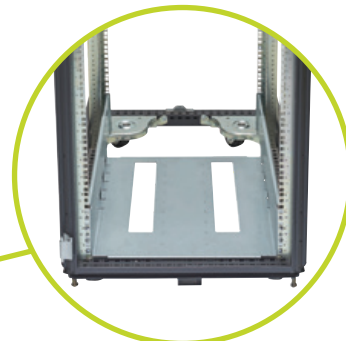
Communication options	
Description	Catalog number
Network card	Network-MS
Relay card	Relay-MS
Industrial relay card	Modbus-MS
Environmental monitoring probe	P-116000035



Smart EBM technology identifies batteries automatically



External bypass power module



Convert from tower to rackmount with an easily installed rack kit



2 mini-slot ports for options using Network-MS gives access to Eaton's software offerings

9PXM CTO configuration guide

9PXM cabinet can be ordered using a pre-configured catalog number or by using the CTO process. Pre-configured catalog numbers which will include a cabinet with the quantities of power modules, battery modules and outlet configurations appropriate for the power rating and input/out configuration outlined in the table below. To order options not offered by pre-configured catalog numbers, please see the CTO guide on page 5.

Pre-configured systems with hardwire input and output						
Catalog number	Power rating – split-phase	Input connection	Output connection	Included items	Description	Quantity
9PXM8S4K	4 kVA expandable to 12 kVA (N+X)	Hardwired	Hardwired	9PXM08AAXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	1
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	2
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM8S8K	8 kVA expandable to 12 kVA (N+X)	Hardwired	Hardwired	9PXM08AAXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	2
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	4
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM8S12K	12 kVA expandable to 12 kVA (N+1)	Hardwired	Hardwired	9PXM08AAXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	3
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	6
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM12S8K	8 kVA expandable to 20 kVA (N+X)	Hardwired	Hardwired	9PXM12AAAAA	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	2
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	4
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM12S12K	12 kVA expandable to 20 kVA (N+X)	Hardwired	Hardwired	9PXM12AAAAA	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	3
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	6
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM12S16K	16 kVA expandable to 20 kVA (N+X)	Hardwired	Hardwired	9PXM12AAAAA	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	4
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	8
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM12S20K	20 kVA expandable to 20 kVA (N+1)	Hardwired	Hardwired	9PXM12AAAAA	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	5
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	10
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
Pre-configured systems with hardwire input						
Catalog number	Power rating – split-phase	Input connection	Output connection	Included items	Description	Quantity
9PXM8S4K-PD	4 kVA expandable to 12 kVA (N+X)	Hardwired	(4) 5-20R (2) L6-30R	9PXM08BHXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	1
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	2
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM8S8K-PD	4 kVA expandable to 12 kVA (N+X)	Hardwired	(4) 5-20R (2) L6-30R	9PXM08BHXXX	Eaton 9PXM tower UPS-8 slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	2
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	4
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM8S12K-PD	12 kVA expandable to 12 kVA (N+1)	Hardwired	(4) 5-20R (2) L6-30R	9PXM08BHXXX	Eaton 9PXM tower UPS 8-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	3
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	6
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM12S8K-PD	8 kVA expandable to 20 kVA (N+X)	Hardwired	(8) 5-20R (2) L6-20R (2) L6-30R (2) L14-30R	9PXM12BBFHK	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	2
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	4
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM12S12K-PD	12 kVA expandable to 20 kVA (N+X)	Hardwired	(8) 5-20R (2) L6-20R (2) L6-30R (2) L14-30R	9PXM12BBFHK	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	3
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	6
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM12S16K-PD	16 kVA expandable to 20 kVA (N+X)	Hardwired	(8) 5-20R (2) L6-20R (2) L6-30R (2) L14-30R	9PXM12BBFHK	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	4
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	8
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1
9PXM12S20K-PD	20 kVA expandable to 20 kVA (N+1)	Hardwired	(8) 5-20R (2) L6-20R (2) L6-30R (2) L14-30R	9PXM12BBFHK	Eaton 9PXM tower UPS 12-slot cabinet – convertible to rackmount	1
				9PXMSPPM	Eaton 9PXM split-phase power module 4 kVA	5
				9PXMBAAT	Eaton 9PXM battery pack (2 per module)	10
				Network-MS	Network-MS card, mini-slot, ethernet, sensor	1

9PXM battery backup times (in minutes)

Battery modules

Power rating

kVA	kW	1	2	3	4	5	6	7	8	9	10	11	12
4 kVA	3.6 kW	5.8	16.6	27.6	39.3	51.7	64.7	78.2	92.1	106.5	121.2	136.3	151.7
8 kVA	7.2 kW		5.8	10.7	16.6	22	27.6	33.3	39.3	45.4	51.7	58.1	64.7
12 kVA	10.8 kW			5.8	9	12.6	16.6	20.2	23.8	27.6	31.4	35.3	39.3
16 kVA	14.4 kW				5.8	8.1	10.7	13.6	16.6	19.3	22	24.8	27.6
20 kVA	18.0 kW					5.8	7.6	9.7	11.8	14.2	16.6	18.8	20.9
kVA	kW	13	14	15	16	17	18	19	20	21	22	23	24
4 kVA	3.6 kW	167.4	183.4	199.6	216.1	232.8	249.8	266.9	284.3	301.9	319.7	337.6	355.8
8 kVA	7.2 kW	71.4	78.2	85.1	92.1	99.3	106.5	113.8	121.2	128.7	136.3	144	151.7
12 kVA	10.8 kW	43.3	47.5	51.7	55.9	60.3	64.7	69.1	73.6	78.2	82.8	87.4	92.1
16 kVA	14.4 kW	30.4	33.3	36.3	39.3	42.3	45.4	48.5	51.7	54.9	58.1	61.4	64.7
20 kVA	18.0 kW	23.1	25.3	27.6	29.8	32.1	34.5	36.9	39.3	41.7	44.2	46.6	49.1
kVA	kW	25	26	27	28	29	30	31	32	33	34	35	36
4 kVA	3.6 kW	374.1	392.6	411.2	430	449	468.1	487.3					
8 kVA	7.2 kW	159.5	167.4	175.4	183.4	191.5	199.6	207.8	216.1	224.4	232.8	241.3	249.8
12 kVA	10.8 kW	96.9	101.7	106.5	111.4	116.3	121.2	126.2	131.2	136.3	141.4	146.5	151.7
16 kVA	14.4 kW	68	71.4	74.8	78.2	81.6	85.1	88.6	92.1	95.7	99.3	102.9	106.5
20 kVA	18.0 kW	51.7	54.2	56.8	59.4	62	64.7	67.3	70	72.7	75.4	78.2	80.9
kVA	kW	37	38	39	40	41	42	43	44	45	46	47	48
4 kVA	3.6 kW												
8 kVA	7.2 kW	258.3	266.9	275.6	284.3	293.1	301.9	310.8	319.7	328.6	337.6	346.7	355.8
12 kVA	10.8 kW	156.9	162.1	167.4	172.7	178	183.4	188.8	194.2	199.6	205.1	210.6	216.1
16 kVA	14.4 kW	110.1	113.8	117.5	121.2	125	128.7	132.5	136.3	140.1	144	147.8	151.7
20 kVA	18.0 kW	83.7	86.5	89.3	92.1	95	97.8	100.7	103.6	106.5	109.4	112.4	115.3
kVA	kW	49	50	51	52	53	54	55	56	57	58		
4 kVA	3.6 kW												
8 kVA	7.2 kW	364.9	374.1	383.3	392.6	401.9	411.2	420.6	430	439.5	449		
12 kVA	10.8 kW	221.6	227.2	232.8	238.4	244.1	249.8	255.5	261.2				
16 kVA	14.4 kW	155.6	159.5	163.4	167.4	171.4	175.4	179.4					
20 kVA	18.0 kW	118.3	121.2	124.2	127.2	130.2	133.3						

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