

Optimized Infrastructure for AI Deployments

Schneider Electric + Dell Technologies

Building on Dell Technologies product portfolio, Dell's air-cooled AI servers can be configured and deployed with trusted Technology Partners. To support these deployments, Schneider Electric, a 35 year+ Dell Extended Technologies partner, has developed a series of reference frameworks engineered for performance, reliability, and scalability.

Each framework integrates the core white space components with racks, power distribution, liquid-assisted air cooling systems, and essential accessories required to effectively power and thermally manage next-generation AI servers.

Developed in collaboration with Dell, these frameworks are designed to assist partners and customers in accurately sizing, configuring, and quoting small to mid-scale enterprise AI environments. The reference architectures simplify design decisions, reduce deployment risk, and accelerate time to production.

Note: The selection and sizing of power and cooling components depend on site-specific and environmental factors. These frameworks represent the most common deployment scenarios based on standard environmental profiles and may require customization for unique operating conditions.

For project consultation or technical guidance, please contact your Schneider Electric sales representative.



High-performance Server Solutions

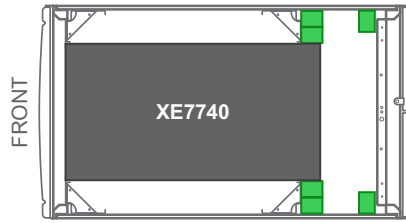
Reference frameworks for 42RU and 48RU configurations featuring leading AI servers:

DELL Technologies

- Up to 8 air-cooled PowerEdge **XE7740/XE7745** servers
- Up to 6 air-cooled PowerEdge **XE9680** servers
- Up to 4 air-cooled PowerEdge **XE9780/XE9785** servers

XE7740/XE7745 Configurations

Top view (conceptual) for XE7740/XE7745 server configuration with (1) AR9557SPB2 rack and (6) APDU11450ME rPDUs



Number of XE7740/XE7745 Servers		4	6	8	
Approximate power required		33kW	56kW	67kW	
Enclosure					
NetShelter SX 42U x 750mm x1200mm	AR3350B2	1	1	-	-
NetShelter SX 48U x 750mm x1200mm	AR3357B2 ¹	-	-	1	-
NetShelter SX Advanced 48U x 750mm x 1295mm	AR9557SPB2	-	-	-	1
Suggested Rack Accessories					
Vertical Cable Manager (42U)	AR7580A	1	1	-	-
Vertical Cable Manager (48U)	AR7588	-	-	1	1
Air Sealing Kit	AR7708	1	1	1	1
Blanking Panels	AR8136BLK ²	1	1	1	1
3-Phase Power Distribution Options - Minimum Quantity³					
NetShelter rPDU Advanced					
60/63A (400/415V), 12 breakers, vertical mount	APDU11450ME⁴	3	4	-	6
60/63A (400/415V), 15 breakers, vertical mount	APDU11458ME ⁷	3	4	-	5
100A (400/415V), 18 breakers, vertical mount	APDU11550ME⁴	2	3	4	4
rPDU Mounting					
Vertical PDU Mounting Brackets	AR7711X960	1	2	2	
Cooling					
Motivair ChilledDoor 42U M12 w/ 42U NetShelter SX 750mm adapter frame	M12F42U750BFAR3350B2	1	-	-	
Motivair ChilledDoor 42U M14-F w/ 42U NetShelter SX 750mm adapter frame	M1442U750BFAR3350B2	-	1	-	
Motivair ChilledDoor 48U M16 w/ 48U NetShelter SX 750mm adapter frame	M1648U750BFAR3357B2	-	-	1	
Pair of 12' Hoses	SUBASM-25018	1	1	1	
Basic start-up service ⁵	SVC-I&S-MCD-1	1	1	1	
Maintenance service (1, 3 or 5 years) ^{5,6}	SVC-G1YR-MCD-1	1	1	1	

¹ Alternate option: AR9557SPB2 for 1295mm depth

² AR8136BLK includes (10) 1U panels

³ PDU quantities are minimum based on power needs only, not redundancy

⁴ Most common PDU highlighted in bold text, others may be used if available on-site

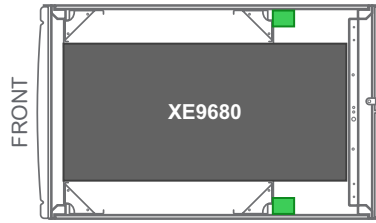
⁵ Service part numbers shown are for a single unit only, services scale by quantity

⁶ Maintenance service part number shown for 1 year, options for 3 or 5 years available

⁷ Upcoming availability

XE9680 Configurations

Top view (conceptual) for XE9680 server configuration with (1) AR3350B2 rack and (2) APDU11450ME rPDUs



Number of XE9680 Servers		2	4	6
Approximate power required		23kW	46kW	69kW
Enclosure				
NetShelter SX 42U x 750mm x1200mm	AR3350B2	1	1	-
NetShelter SX 48U x 750mm x1200mm	AR3357B2 ¹	-	-	1
Suggested Rack Accessories				
Vertical Cable Manager (42U)	AR7580A	1	1	-
Vertical Cable Manager (48U)	AR7588	-	-	1
Air Sealing Kit	AR7708	1	1	1
Blanking Panels	AR8136BLK ²	1	1	1
3-Phase Power Distribution Options - Minimum Quantity³				
NetShelter rPDU Advanced				
30/32A (400/415V), 6 breakers, vertical mount	APDU11350ME	4	-	-
60A (208V), 6 breakers, vertical mount	APDU11452ME (NAM only)	2	4	-
60/63A (400/415V), 12 breakers, vertical mount	APDU11450ME⁴	1	2	3
60/63A (400/415V), 15 breakers, vertical mount	APDU11458ME ⁷	1	2	3
100A (400/415V), 18 breakers, vertical mount	APDU11550ME	1	2	2
rPDU Mounting				
Vertical PDU Mounting Brackets	AR7711X960	1	1	2
Cooling				
Motivair ChilledDoor 42U M12 w/ 42U NetShelter SX 750mm adapter frame	M12F42U750BFAR3350B2	1	-	-
Motivair ChilledDoor 42U M14-F w/ 42U NetShelter SX 750mm adapter frame	M1442U750BFAR3350B2	-	1	-
Motivair ChilledDoor 48U M16 w/ 48U NetShelter SX 750mm adapter frame	M1648U750BFAR3357B2	-	-	1
Pair of 12' Hoses	SUBASM-25018	1	1	1
Basic start-up service ⁵	SVC-I&S-MCD-1	1	1	1
Maintenance service (1, 3 or 5 years) ^{5,6}	SVC-G1YR-MCD-1	1	1	1

¹ Alternate option: AR9557SPB2 for 1295mm depth

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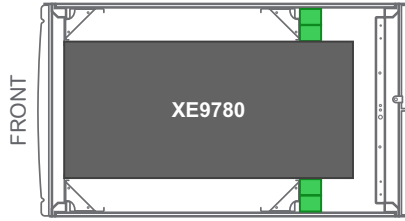
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⁷ Upcoming availability

XE9780/XE9785 Configurations

Top view (conceptual) for XE9780/XE9785 server configuration with (1) AR9557SPB2 rack and (4) APDU11550ME rPDUs



Number of XE9780/XE9785 Servers		2	3	4	
Approximate power required		38kW	57kW	76kW	
Enclosure					
NetShelter SX 42U x 750mm x1200mm	AR3350B2	1	1	-	-
NetShelter SX 48U x 750mm x1200mm	AR3357B2 ¹	-	-	1	-
NetShelter SX Advanced 48U x 750mm x 1295mm	AR9557SPB2	-	-	-	1
Suggested Rack Accessories					
Vertical Cable Manager (42U)	AR7580A	1	1	-	-
Vertical Cable Manager (48U)	AR7588	-	-	1	1
Air Sealing Kit	AR7708	1	1	1	1
Blanking Panels	AR8136BLK ²	1	1	1	1
3-Phase Power Distribution Options - Minimum Quantity³					
NetShelter rPDU Advanced					
60/63A (400/415V), 15 breakers, vertical mount	APDU11458ME^{4,7}	2	3	-	5
100A (400/415V), 18 breakers, vertical mount	APDU11550ME⁴	2	2	4	4
rPDU Mounting					
Vertical PDU Mounting Brackets	AR7711X960	1	2	2	
Cooling					
Motivair ChilledDoor 42U M12 w/ 42U NetShelter SX 750mm adapter frame	M12F42U750BFAR3350B2	1	-	-	
Motivair ChilledDoor 42U M14-F w/ 42U NetShelter SX 750mm adapter frame	M1442U750BFAR3350B2	-	1	-	
Motivair ChilledDoor 48U M16 w/ 48U NetShelter SX 750mm adapter frame	M1648U750BFAR3357B2	-	-	1	
Pair of 12' Hoses	SUBASM-25018	1	1	1	
Basic start-up service ⁵	SVC-I&S-MCD-1	1	1	1	
Maintenance service (1, 3 or 5 years) ^{5,6}	SVC-G1YR-MCD-1	1	1	1	

¹ Alternate option: AR9557SPB2 for 1295mm depth

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Schneider Electric
One Boston Place, Suite 2700
Boston, MA 02108 USA

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