

Part 1 of 3	ARKRAY Angie Howe howea@arkrayusa.com Edina, MN 952-646-3224 arkrayusa.com/clinical-diagnostics	ARKRAY Jane Nichols nicholsj@arkrayusa.com Edina, MN 952-646-3231 www.arkrayusa.com	Beckman Coulter Jackie Smithee jssmithee@beckman.com Brea, CA www.beckmancoulter.com/urinalysis
Name of urinalysis instrument	AUTION ELEVEN AE-4022	AUTION MAX AX-4030	DxU Microscopy Series: DxU 850m Iris, DxU 840m Iris [†]
Type of instrument	urine chemistry	urine chemistry	microscopy/sediment
Instrument list price	—	—	—
First year instrument sold in U.S.	2017	2011	2003
No. of units installed in U.S./No. of units installed outside U.S.	— (also sold via Cardinal Health, Beckman Coulter, Medline Industries)	— (also sold via distribution partners)	>2,000/>4,000 globally for both systems combined (also sold via McKesson and Henry Schein in the U.S.)
Foreign countries where company markets instrument	worldwide	worldwide	worldwide
Country where instrument designed/manufactured	Japan/Japan	Japan/Japan	U.S./U.S.
Intended urine sample volume per day	—	>15	50–600+
Dimensions (HxWxD)/Weight fully loaded with reagents	6.5 × 8.3 × 12.9 in./7.9 lbs.	21 × 21 × 21 in./82 lbs.	22 × 21 × 24 in./100 lbs.
Power requirements	100–240 VAC (50–60 Hz)	100–240 VAC (50–60 Hz)	90–240 VAC (50–60 Hz)
Mean time between failure of instrument	600 days	364 days	—
Events that cause instrument to lock or stop analysis	user ID failure, result error	short sample, result error, sampling error	QC failure, short sample, barcode/sample ID misread, result error, sampling error, consumables replacement/expiration
Urine chemistry: (Information in this box is specific to urine chemistry)			
• Testing methodology: specific gravity/color/clarity	test strip/test strip/visual read, manual entry	refractometer/wavelength of absorbance within an analyzer well/turbidity within an analyzer well	—
• Urine chemistry tests available on instrument in the U.S.	bilirubin (0.5–14 mg/dL), hemoglobin (0.03–1.0 mg/dL), glucose (30–1,000 mg/dL), ketone (5–150 mg/dL), leukocyte esterase (25–500 leukocytes/μL), nitrite (0.08–0.5 mg/dL), pH (5–9), protein (10–1,000 mg/dL), specific gravity (1.005–1.030), urobilinogen (2–16 mg/dL)	bilirubin (0.5–10 mg/dL), hemoglobin (0.03–1.0 mg/dL), glucose (30–1,000 mg/dL), ketone (5–150 mg/dL), leukocyte esterase (0–500 leukocytes/μL), nitrite (0.08–0.5 mg/dL), pH (5–9), protein (10–600 mg/dL), specific gravity (1.000–1.050), urobilinogen (2–12 mg/dL)	—
• Color compensation pad included	yes	yes	—
• Flagging thresholds customizable	—	no	—
• Test strip configuration	loosely packed in bottles	loosely packed in bottles	—
• Calibration required after each test strip lot No. change	no	no	—
• Frequency of customer-performed calibration	—	—	—
• Form of calibration	—	—	—
• How results are displayed for urine chemistry	semiquantitative	semiquantitative	—
• Reporting format customizable	no	no	—
• No. of results that can be held in internal memory	520 (sample results and control results combined)	2,500 sample results/200 control results	—
• Specific gravity correction for protein/glucose	no (protein)/no (glucose)	yes (protein)/yes (glucose)	—
Microscopy/sediment: (Information in this box is specific to microscopy/sediment)			
• Microscopy/sediment technology	—	—	digital flow morphology using auto particle recognition software
• Microscopy/sediment analysis parameters	—	—	qualitative and quantitative: pathological casts, crystals, yeast-like cells, mucus, sperm, RBCs, WBCs, epithelial cells, bacteria, hyaline casts, WBC clumps
• Flagging thresholds customizable	—	—	yes
• Instrument eliminates amorphous crystal interference before sample analysis	—	—	no
• How results are displayed for microscopy/sediment	—	—	numeric values
• Reporting format customizable	—	—	yes
• No. of results that can be held in internal memory	—	—	10,000 sample results/200 control results
Reagent shelf life/storage temperature for unopened containers	2 years/1–30°C	2 years/1–30°C	varies based on reagent type
Reagent shelf life/storage temperature for opened containers	31 days/1–30°C	31 days/1–30°C	varies based on reagent type
Reagent barcode-reading capability	no	yes, for some tests	yes, for some tests
How often quality control samples are run	daily (can use other vendors' QC products)	daily (can use other vendors' QC products)	daily (cannot use other vendors' QC products)
Sample throughput per hour/Time to first result for chemistry	514/1 min.	225/1 min. cycle time	—
Sample throughput per hour/Time to first result for microscopy/sediment	—	—	DxU 840m: 70, DxU 850m: 101/<2 min.
Analyzer has stat mode	no	yes (minimum sample volume, 2 mL)	yes (minimum sample volume, 2 mL)
Sample dilutions required for urinalysis/body fluid analysis	no (urinalysis)/— (body fluid analysis)	no (urinalysis)/— (body fluid analysis)	no (urinalysis)/yes (body fluid analysis)
• Special sample handling required for body fluid analysis	—	—	yes (lyse reagent)
Minimum width of sample tube/Minimum length of sample tube	—	15.8 mm/105 mm	16 mm/100 mm
Conditions or substances that prevent a sample from being run	—	—	grossly visible turbidity
Means of sample ID entry	barcode scan, manual entry	barcode scan, manual entry	barcode scan, manual entry
Built-in liquid-level sensing for samples	no	yes	yes
Information that can be barcode scanned on instrument	operator identifier, specimen identifier	specimen identifier	specimen identifier, reagent lot No., reagent expiration
How LOINC codes for results are made available	—	e-mail query	manual transmission
Software includes reflex testing/cross-check functionality	no (reflex testing)/no (cross-check functionality)	no (reflex testing)/no (cross-check functionality)	yes (reflex testing)/yes (cross-check functionality)
Instrument automatically generates consolidated report*	no	no	yes
Instrument connections to transfer information	directly to LIS or via commercial middleware (Data Innovations)	directly to LIS or via commercial middleware (Data Innovations)	directly to LIS or EHR
Interface standards supported	ASTM 1394-91, ASTM 1381	ASTM 1394-91, ASTM 1381	ASTM with proprietary message layer
Bidirectional interface	no	yes (to other companies' LISs—Cerner, Epic, Meditech, Orchard, SCC Soft Computer, Sunquest)	yes (to other companies' LISs)
Test results can be transmitted to LIS as soon as tests completed	yes	yes	—
Connection to LIS to upload patient and QC results	direct serial connection or hospital network	direct serial connection or hospital network	—
Connection to EHR to upload patient and QC results	option not available	—	—
Information included in transmission from instrument to data-management software	device unique identifier, specimen ID, result, QC identifier	device unique identifier, specimen ID, result	device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier
No. of days of training with instrument purchase	0	1–2 days at customer site	1 day at customer site, 2.5 days at vendor office
Approximate scheduled maintenance time required	5 min. daily	<5 min. daily; <5 min. weekly; <10 min. monthly	—
• Maintenance records kept onboard instrument	no	no	yes
Provide list of client sites to potential customers on request	no (information is confidential)	yes (partial list of comparable sites)	yes (complete list with no restrictions regarding its use)
Clients restricted from sharing their experience with company or software	no	no	no
Distinguishing instrument features (supplied by company)	<ul style="list-style-type: none"> standardized test strip technology across all ARKRAY platforms clinically significant reporting ranges small semi-automated footprint 	<ul style="list-style-type: none"> proven reliability with less than one unscheduled service event per year abnormal color detection alerts operators to potential false-positive results easy to use; strips easy to load; does not require calibration 	<ul style="list-style-type: none"> streamlines urinalysis workflow to achieve manual review rates of 4% auto-classifies 12 urine particles based on size, shape, contrast, and texture to provide digital images for all samples urinalysis system FDA-cleared body fluids module; linearity down to zero
*chemistry and microscopy results in one report			
Note: a dash in lieu of an answer means company did not answer question or question is not applicable			[†] formerly iQ200 series; answers in listing apply to both systems unless otherwise indicated

Part 2 of 3	Beckman Coulter Jackie Smithee jssmithee@beckman.com Brea, CA www.beckmancoulter.com/urinalysis	Roche Diagnostics Brittany Greiner brittany.greiner@roche.com Indianapolis, IN 317-521-2000 www.roche.com	Roche Diagnostics Brittany Greiner brittany.greiner@roche.com Indianapolis, IN 317-521-2000 www.roche.com
Name of urinalysis instrument Type of instrument Instrument list price First year instrument sold in U.S. No. of units installed in U.S./No. of units installed outside U.S. Foreign countries where company markets instrument Country where instrument designed/manufactured Intended urine sample volume per day Dimensions (HxWxD)/Weight fully loaded with reagents Power requirements Mean time between failure of instrument Events that cause instrument to lock or stop analysis	DxU Iris Workcell: DxU Iris 850, DxU Iris 840 [†] urine chemistry and microscopy/sediment combined — 2021 >50/>70 globally for both systems combined (also sold via McKesson and Henry Schein in the U.S.) none U.S. and Japan/U.S. and Japan 50–600+ 23 × 21 × 60 in./238 lbs. 90–240 VAC (50–60 Hz) — QC failure, short sample, barcode/sample ID misread, result error, sampling error, consumables replacement/expiration	cobas u 411 urine chemistry — 2006 >400/>2,300 globally worldwide Switzerland/Switzerland 10–100 10.24 × 16.73 × 13.34 in./~26 lbs. 110 VAC — —	cobas u 601 urine chemistry — 2019 —/~1,200 globally worldwide Hungary/Hungary ≥50 25.35 × 42.48 × 20.94 in./207.5 lbs. 100–125 VAC 126 days opening front cover
Urine chemistry: <i>(Information in this box is specific to urine chemistry)</i> • Testing methodology: specific gravity/color/clarity • Urine chemistry tests available on instrument in the U.S. • Color compensation pad included • Flagging thresholds customizable • Test strip configuration • Calibration required after each test strip lot No. change • Frequency of customer-performed calibration • Form of calibration • How results are displayed for urine chemistry • Reporting format customizable • No. of results that can be held in internal memory • Specific gravity correction for protein/glucose	refractometer/wavelength of absorbance within an analyzer well/turbidity within an analyzer well bilirubin (0–>10 mg/dL), hemoglobin (0–>1 mg/dL), glucose (0–>1,000 mg/dL), ketone (0–>150 mg/dL), leukocyte esterase (0–500 leukocytes/μL), nitrite (–, 1+, 2+), pH (5–9), protein (0–>600 mg/dL), specific gravity (1.000–1.500), urobilinogen (0–≥12 mg/dL) yes no loosely packed in bottles no — — semiquantitative no 2,500 sample results/200 control results yes (protein)/yes (glucose)	test strip/wavelength of absorbance within an analyzer well/— bilirubin (neg.–6 mg/dL), red blood cells (neg.–250 erythrocytes/μL), hemoglobin (neg.–250 erythrocytes/μL), glucose (normal–1,000 mg/dL), ketone (neg.–150 mg/dL), leukocyte esterase (neg.–500 leukocytes/μL), nitrite (positive/negative), pH (5–9), protein (neg.–500 mg/dL), specific gravity (1.000–1.030), urobilinogen (normal–12 mg/dL) yes no loosely packed in bottles no 28 days dry semiquantitative yes 1,000 sample results/300 control results —	refractometer/test strip/turbidity within an analyzer well bilirubin (neg.–6 mg/dL), red blood cells (intact RBCs up to 50 erythrocytes/μL), hemoglobin (neg.–250 erythrocytes/μL), glucose (normal–1,000 mg/dL), ketone (neg.–150 mg/dL), leukocyte esterase (neg.–500 leukocytes/μL), nitrite (positive/negative), pH (5–9), protein (neg.–500 mg/dL), specific gravity (1.000–1.030), urobilinogen (normal–12 mg/dL) yes yes cartridge no 28 days dry semiquantitative yes 10,000 sample results/300 control results —
Microscopy/sediment: <i>(Information in this box is specific to microscopy/sediment)</i> • Microscopy/sediment technology • Microscopy/sediment analysis parameters • Flagging thresholds customizable • Instrument eliminates amorphous crystal interference before sample analysis • How results are displayed for microscopy/sediment • Reporting format customizable • No. of results that can be held in internal memory	digital flow morphology using auto particle recognition software qualitative and quantitative: pathological casts, crystals, yeast-like cells, mucus, sperm, RBCs, WBCs, epithelial cells, bacteria, hyaline casts, WBC clumps yes no numeric values yes 10,000 sample results/200 control results	— — — — — — —	— — — — — — —
Reagent shelf life/storage temperature for unopened containers Reagent shelf life/storage temperature for opened containers Reagent barcode-reading capability	varies based on reagent type varies based on reagent type yes, for some tests	—/2–30°C —/2–30°C no	—/2–30°C —/2–30°C reagent information read through RFID chip
How often quality control samples are run Sample throughput per hour/Time to first result for chemistry Sample throughput per hour/Time to first result for microscopy/sediment Analyzer has stat mode Sample dilutions required for urinalysis/body fluid analysis • Special sample handling required for body fluid analysis Minimum width of sample tube/Minimum length of sample tube Conditions or substances that prevent a sample from being run Means of sample ID entry Built-in liquid-level sensing for samples	daily (cannot use other vendors' QC products) 225/1 min. DxU 840: 70, DxU 850: 101/<2 min. yes (minimum sample volume, 3 mL for microscopy/sediment) no (urinalysis)/yes (body fluid analysis) yes (lyse reagent) 16 mm/100 mm grossly visible turbidity barcode scan, manual entry yes	— (can use other vendors' QC products) 600/1 min. — no (minimum sample volume for sampler or track mode is minimum amount necessary to immerse pads) no (urinalysis)/— (body fluid analysis) — preservatives barcode scan, bidirectional download from host, worklist download from host, manual entry —	— (can use other vendors' QC products) 240/1 min. — yes (minimum sample volume, 1.5 mL) no (urinalysis)/— (body fluid analysis) — 13 mm/65 mm preservatives barcode scan, manual entry, worklist download from host, bidirectional download from host yes
Information that can be barcode scanned on instrument How LOINC codes for results are made available Software includes reflex testing/cross-check functionality Instrument automatically generates consolidated report* Instrument connections to transfer information Interface standards supported Bidirectional interface Test results can be transmitted to LIS as soon as tests completed Connection to LIS to upload patient and QC results Connection to EHR to upload patient and QC results Information included in transmission from instrument to data-management software	specimen identifier, reagent lot No., reagent expiration manual transmission yes (reflex testing)/yes (cross-check functionality) yes directly to LIS or EHR ASTM with proprietary message layer yes (to other companies' LISs) — — — device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier	specimen identifier website, e-mail query no (reflex testing)/no (cross-check functionality) no data-management system that connects to LIS or EHR, or data-management system that cannot further transmit data, or directly to LIS or EHR, or via commercial middleware (Data Innovations) ASTM 1394-91, ASTM 1238-95 yes (to other companies' LISs and EHRs) yes direct serial connection — specimen ID, result	specimen identifier, reagent lot No. website, e-mail query — (reflex testing)/yes (cross-check functionality) — data-management system that connects to LIS or EHR, or data-management system that cannot further transmit data, or directly to LIS or EHR, or via commercial middleware (Data Innovations, Infinity) ASTM 1394-91, ASTM 1381 yes (to other companies' LISs and EHRs) yes hospital network hospital network device unique identifier, operator ID, patient ID, specimen ID, result
No. of days of training with instrument purchase Approximate scheduled maintenance time required • Maintenance records kept onboard instrument	1 day at customer site, 2.5 days at vendor office — yes	0 5 min. daily; 10 min. monthly —	— 10 min. daily; 10 min. weekly; 10 min. monthly —
Provide list of client sites to potential customers on request Clients restricted from sharing their experience with company or software	yes (complete list with no restrictions regarding its use) no	no (information is confidential) no	no (information is confidential) no
Distinguishing instrument features (supplied by company) *chemistry and microscopy results in one report Note: a dash in lieu of an answer means company did not answer question or question is not applicable	• streamlines urinalysis workflow to achieve manual review rates of 4% • auto-classifies 12 urine particles based on size, shape, contrast, texture to provide digital images for samples • urinalysis system FDA-cleared body fluids module; linearity down to zero [†] formerly iQ Workcell; answers in listing apply to both systems unless otherwise indicated	• fast, efficient processing of urine strips; analyzer ready to test every six seconds • Chemstrip 10UA strip has virtually no interference with ascorbic acid, minimizing false-negative glucose and hemoglobin results • flexible sample ID entry options let user choose barcode scan, download from host, or manual entry options	• cobas u pack strips have virtually no interference with ascorbic acid, minimizing false-negative glucose and hemoglobin results • innovative photometer with improved reflectance technology differentiates lysed and intact erythrocytes • 19-in. HD touchscreen monitor with an intuitive user interface and convenient QC management

Part 3 of 3	Sysmex America Jason Anderson andersonja@sysmex.com Lincolnshire, IL 888-879-7639 www.sysmex.com/us	Sysmex America Jason Anderson andersonja@sysmex.com Lincolnshire, IL 888-879-7639 www.sysmex.com/us
Name of urinalysis instrument Type of instrument Instrument list price First year instrument sold in U.S. No. of units installed in U.S./No. of units installed outside U.S. Foreign countries where company markets instrument Country where instrument designed/manufactured Intended urine sample volume per day Dimensions (HxWxD)/Weight fully loaded with reagents Power requirements Mean time between failure of instrument Events that cause instrument to lock or stop analysis	Clinitek Novus Automated Urine Chemistry Analyzer urine chemistry \$104,995 2015 >600/>57 (in Canada [†]) Canada [†] U.S. and United Kingdom/U.S. and United Kingdom >50 tests 21 × 25 × 27 in./100 lbs. 100–240 VAC (48–62 Hz) 120 days user ID failure, sampling error, consumables replacement/expiration, calibration failure	UN-Series Automated Urinalysis Solution (UN-2000, UN-3000, UN-9000) [†] urine chemistry and microscopy/sediment combined dependent on configuration UN-2000: 2019; UN-3000 and UN-9000: 2020 >600 (all units combined)/— Canada Japan/Japan >80 tests varies by configuration/varies by configuration varies by configuration 90 days user ID failure, consumables replacement/expiration
Urine chemistry: <i>(Information in this box is specific to urine chemistry)</i> • Testing methodology: specific gravity/color/clarity • Urine chemistry tests available on instrument in the U.S. • Color compensation pad included • Flagging thresholds customizable • Test strip configuration • Calibration required after each test strip lot No. change • Frequency of customer-performed calibration • Form of calibration • How results are displayed for urine chemistry • Reporting format customizable • No. of results that can be held in internal memory • Specific gravity correction for protein/glucose	refractometer/wavelength of absorbance in an analyzer well or test strip/turbidity within an analyzer well bilirubin (0.5–2.7 mg/dL), red blood cells (trace level), hemoglobin (0.013–0.3 mg/dL), glucose (36–820 mg/dL), ketone (3.6–156 mg/dL), leukocyte esterase (6–91 cells/μL), nitrite (positive/negative), pH (5.3–8.7), protein (10.8–1,000 mg/dL), specific gravity (1.000–1.099), urobilinogen (0.24–6.24 mg/dL) yes yes cartridge yes with every Novus cassette change or every 24 hours when multiple same-lot Novus cassettes are used within 24 hours liquid semiquantitative yes 7,500 sample results/400 control results	refractometer/wavelength of absorbance in an analyzer well or test strip/turbidity within an analyzer well bilirubin (0.5–2.7 mg/dL), red blood cells (trace levels), hemoglobin (0.013–0.3 mg/dL), glucose (36–820 mg/dL), ketone (3.6–156 mg/dL), leukocyte esterase (6–91 cells/μL), nitrite (positive/negative), pH (5.3–8.7), protein (10.8–1,000 mg/dL), specific gravity (1.000–1.099), urobilinogen (0.24–6.24 mg/dL) yes yes cartridge yes with every Novus cassette change or every 24 hours when multiple same-lot Novus cassettes are used within 24 hours liquid semiquantitative yes 100,000 sample results (in the urinalysis data manager)/400 QC analysis results no (protein)/no (glucose)
Microscopy/sediment: <i>(Information in this box is specific to microscopy/sediment)</i> • Microscopy/sediment technology • Microscopy/sediment analysis parameters • Flagging thresholds customizable • Instrument eliminates amorphous crystal interference before sample analysis • How results are displayed for microscopy/sediment • Reporting format customizable • No. of results that can be held in internal memory	— — — — — —	flow cytometry with fluorescent stain, digital image analysis with UN-3000 and UN-9000 configurations flagged and qualitative: pathological casts, crystals, yeast-like cells, mucus, sperm; quantitative: RBCs, WBCs, epithelial cells, bacteria, hyaline casts yes yes numeric values or scattergrams yes 100,000 sample results (in the urinalysis data manager)/2 concentrations × 3 lots (120 plots/lot) for control results
Reagent shelf life/storage temperature for unopened containers Reagent shelf life/storage temperature for opened containers Reagent barcode-reading capability	365 days/15–30°C onboard stability of cassette, 14 days/15–30°C yes, for all tests	varies based on reagent type varies based on reagent type yes, for all tests
How often quality control samples are run Sample throughput per hour/Time to first result for chemistry Sample throughput per hour/Time to first result for microscopy/sediment Analyzer has stat mode Sample dilutions required for urinalysis/body fluid analysis • Special sample handling required for body fluid analysis Minimum width of sample tube/Minimum length of sample tube Conditions or substances that prevent a sample from being run Means of sample ID entry Built-in liquid-level sensing for samples	follow government regulations or accreditation requirements (can use other vendors' QC products) 240/— — yes (minimum sample volume, 2 mL) no (urinalysis)/— (body fluid analysis) — 16 mm/100 mm blood, mucus barcode scan, worklist download from host, manual entry, RFID for authentic entry of cassette lot yes	daily (cannot use other vendors' QC products) 240/— varies by configuration/— yes (minimum sample volume, 2 mL for chemistry/1.6 mL for microscopy/sediment) no (urinalysis)/no (body fluid analysis) — 16 mm/100 mm blood, mucus, high fluorescence barcode scan, manual entry, worklist download from host yes
Information that can be barcode scanned on instrument How LOINC codes for results are made available Software includes reflex testing/cross-check functionality Instrument automatically generates consolidated report* Instrument connections to transfer information Interface standards supported Bidirectional interface Test results can be transmitted to LIS as soon as tests completed Connection to LIS to upload patient and QC results Connection to EHR to upload patient and QC results Information included in transmission from instrument to data-management software	operator identifier, specimen identifier, reagent lot No. website, e-mail query yes (reflex testing)/yes (cross-check functionality) no data-management system that connects to LIS or EHR, or directly to LIS or EHR ASTM 1394-91, ASTM 1381, HL7 — yes direct serial connection or hospital network direct serial connection device unique identifier, operator ID, patient ID, specimen ID, result, QC identifier	specimen identifier, reagent lot No. website, e-mail query yes (reflex testing)/yes (cross-check functionality) yes data-management system that connects to LIS or EHR, or directly to LIS or EHR ASTM 1394-91, ASTM 1381 yes (to other companies' LISs and EHRs) yes hospital network hospital network device unique identifier, operator ID, patient ID, specimen ID, result
No. of days of training with instrument purchase Approximate scheduled maintenance time required • Maintenance records kept onboard instrument	½ day of virtual instructor-led training at customer site 5–10 min. daily no	2 days of virtual instructor-led training at customer site 20 min. daily; 10 min. weekly yes
Provide list of client sites to potential customers on request Clients restricted from sharing their experience with company or software	yes (partial list of comparable sites) no	yes (partial list of comparable sites) no
Distinguishing instrument features (supplied by company)	• reagent cassette format with RFID that provides complete traceability and 14-day onboard stability • digital color camera • sold as a standalone system or can be configured as part of modular integration with the Sysmex UN-2000, UN-3000, or UN-9000	• powerful combination of urine chemistry, fluorescent flow cytometry, and digital image analysis for rapid screening of urine • modular and scalable configurations • BeyondCare quality monitor for urinalysis provides a streamlined and automated QC experience
*chemistry and microscopy results in one report Note: a dash in lieu of an answer means company did not answer question or question is not applicable	[†] marketed in the U.S. and Canada by Sysmex; marketed in other countries by Siemens Healthineers	[†] modular systems: UN-2000, two modules; UN-3000, three modules; UN-9000, four or more modules

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