Universal Compute Platform

Highlights

Container-as-a-Service
- Application deployment and management
- Hosted on the customer premises

Optimized Architecture
- Kubernetes Managed Docker

Container microservices architecture
- High performance, high availability hardware stack

Universal Compute Platform

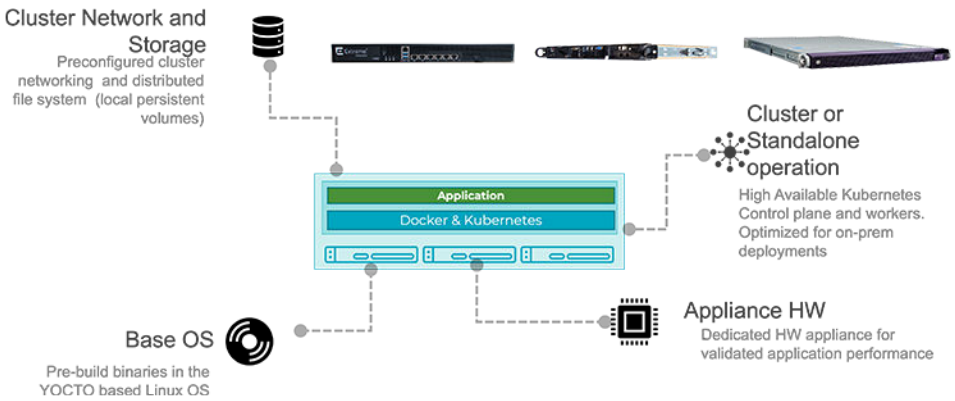
The Universal Compute Platform forms the basis for ExtremeCloud Edge deployment models, providing a container-based orchestration framework, in an Extreme qualified and validated high performance hardware configuration. The framework natively supports clustering, distributed file system and orchestration through Kubernetes, providing a highly resilient application operational base. CaaS is a cloud service model that allows users to manage and deploy containers, applications, and clusters through container-based virtualization.

The Universal Compute Platform offers flexible application orchestration, enables self-guided application installation, management, and full SaaS deployment of select applications such as ExtremeCloud™ IQ.

Universal Compute Platform

The Universal Compute Platform appliance is a high-performance appliance that hosts the middleware component sets of Extreme Universal Compute Platform. The appliance provides a high-performance computing platform for application deployment and hosting with asserted performance. The appliance provides a highly available Kubernetes Control plane, distributed filesystem and workers on three nodes, which are optimized for on-premises deployments.

Onboarding a cluster onto ExtremeCloud IQ provides central visibility of the state of operation. Visibility of cluster state is also provided directly from the appliance itself.



Technical Specifications

Currently the following Universal Compute platforms are available:

- 4120C for Large Scale Self-Orchestration ExtremeCloud Edge deployments
- 4120C-1 for Managed Orchestration deployments
- 1130C for Small Scale Self-Orchestration ExtremeCloud Edge application deployment
- 2130C for Mid-Scale Self-Orchestration ExtremeCloud Edge application deployment
- 3150C for Large-Scale Self-Orchestration ExtremeCloud Edge application deployment
- 3160C for Managed Orchestration deployments

Universal Compute Platform 1130C

Length	43 cm (16.93 in)
Width	32 cm (12.58 in)
Height	4.4 cm (1.72 in)
Weight	5.9 kg (13.07 lb)
Operating Temperature	+0°C to +40°C (+32°F to +104°F)
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Humidity	5% to 90%, non-condensing
19" Rack Mountable	1U configuration to fit standard 19 in. rack (rack mounting ears, fasteners, and rubber feet in the package)
Data Ports	4 x 1Gbps BASE-T
Management Ports	2 x 1 Gbps BASE-T 2 x USB 3.0 ports. Use one. RJ45 Console Port
Power Specifications	Power (max): 150 W Voltage: 110/240 VAC

Regulatory/Safety	• USA, UL60950-1, 62368-1 Listed Device • Canada, CSA 22.2 #60950-1, 62368-1 • EN 62368-1 • 2014/35 EU Low Voltage Directive	International Safety • CB Scheme IEC 62368-1 Ed.+ National Differences • Australia/New Zealand, AS/NZS 62368-1 • Taiwan, BSMI CNS 15598-1 • China, GB 4943.1
Emissions	• USA, Canada - FCC 47 CFR Part 15 Class A, ICES-003 Class A • EN 55032 Class A (Emissions for ITE Equipment) • EN 55011 (Emissions for Industrial, Scientific & Medical Radio Frequency Equipment • EN 55035 Class A • EN6100 0 -3-2 - Harmonics (Europe) • EN6100 0 -3-3 - Voltage Flicker (Europe) • 2014/30/EU (Europe) CE - EMC Directive • CISPR 35 Class A (International Immunity for ITE Equipment) • CISPR 32 Class A (International Emissions) AS/NZS CISPR32 • EN 300 386 • Taiwan, BSMI CNS 15936 • China, GB/T 9254.1	Country Specific • VCCI Class A (Japan Emissions) • ACMA RCM (Australia Emissions) • CQC Mark (China) • KCC Mark, EMC Approval (Korea) • BSMI (Taiwan) • Anatel (Brazil) • NoM (Mexico) • EAC (Armenia, Kazakhstan) • NRCS (South Africa)

Universal Compute Platform 2130C

Length	43.7 cm (17.2 in)
Width	39.9 cm (15.7 in) with rails installed
Height	4.3 cm (1.7 in)
Weight	8.7 kg (19.2 lb)
Operating Temperature	+0°C to +40°C (+32°F to +104°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	8% to 90%, non-condensing
19" Rack Mountable	1U configuration to fit standard 19 in. rack (rack mounting ears, fasteners, and rubber feet in the package)
Data Ports	2 x 1/10 Gbps BASE-T 2 x 1/10/25 Gbps SFP28
Management Ports	2 x 1/10 Gbps BASE-T 2 x USB 3.0 ports. Use one. DB9 Console Port
Power Specifications	Power (max): 800 W (Redundant [2x] Power Supply included) Voltage: 110/240 VAC

Regulatory/Safety	• USA, UL60950-1, 62368-1 Listed Device • Canada, CSA 22.2 #60950-1, 62368-1 • EN 62368-1 • 2014/35 EU Low Voltage Directive	International Safety • CB Scheme IEC 62368-1 Ed.+ National Differences • Australia/New Zealand, AS/NZS 62368-1 • Taiwan, BSMI CNS 15598-1 • China, GB 4943.1
Emissions	• USA, Canada - FCC 47 CFR Part 15 Class A, ICES-003 Class A • EN 55032 Class A (Emissions for ITE Equipment) • EN 55011 (Emissions for Industrial, Scientific & Medical Radio Frequency Equipment • EN 55035 Class A • EN6100 0 -3-2 - Harmonics (Europe) • EN6100 0 -3-3 - Voltage Flicker (Europe) • 2014/30/EU (Europe) CE - EMC Directive • CISPR 35 Class A (International Immunity for ITE Equipment) • CISPR 32 Class A (International Emissions) AS/NZS CISPR32 • EN 300 386 • Taiwan, BSMI CNS 15936 • China, GB/T 9254.1	Country Specific • VCCI Class A (Japan Emissions) • ACMA RCM (Australia Emissions) • CQC Mark (China) • KCC Mark, EMC Approval (Korea) • BSMI (Taiwan) • Anatel (Brazil) • NoM (Mexico) • EAC (Armenia, Kazakhstan) • NRCS (South Africa)

Universal Compute Platform 3150C/3160C

Length	43.7 cm (17.2 in)
Width	39.9 cm (15.7 in) with rails installed
Height	4.3 cm (1.7 in)
Weight	8.8 kg (19.4 lb)
Operating Temperature	+0°C to +40°C (+32°F to +104°F)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Humidity	8% to 90%, non-condensing
19" Rack Mountable	1U configuration to fit standard 19 in. rack (rack mounting ears, fasteners, and rubber feet in the package)
Data Ports	2 x 1/10 Gbps SFP28 2x 10/25/50/100 Gbps QSFP28
Management Ports	2 x 1/10 Gbps BASE-T 2 x USB 3.0 ports. Use one. DB9 Console Port
Power Specifications	Power (max): 800 W (Redundant [2x] Power Supply included) Voltage: 110/240 VAC

Regulatory/Safety	• USA, UL60950-1, 62368-1 Listed Device • Canada, CSA 22.2 #60950-1, 62368-1 • EN 62368-1 • 2014/35 EU Low Voltage Directive	International Safety • CB Scheme IEC 62368-1 Ed.+ National Differences • Australia/New Zealand, AS/NZS 62368-1 • Taiwan, BSMI CNS 15598-1 • China, GB 4943.1
Emissions	• USA, Canada - FCC 47 CFR Part 15 Class A, ICES-003 Class A • EN 55032 Class A (Emissions for ITE Equipment) • EN 55011 (Emissions for Industrial, Scientific & Medical Radio Frequency Equipment • EN 55035 Class A • EN6100 0 -3-2 - Harmonics (Europe) • EN6100 0 -3-3 - Voltage Flicker (Europe) • 2014/30/EU (Europe) CE - EMC Directive • CISPR 35 Class A (International Immunity for ITE Equipment) • CISPR 32 Class A (International Emissions) AS/NZS CISPR32 • EN 300 386 • Taiwan, BSMI CNS 15936 • China, GB/T 9254.1	Country Specific • VCCI Class A (Japan Emissions) • ACMA RCM (Australia Emissions) • CQC Mark (China) • KCC Mark, EMC Approval (Korea) • BSMI (Taiwan) • Anatel (Brazil) • NoM (Mexico) • EAC (Armenia, Kazakhstan) • NRCS (South Africa)

Universal Compute Platform 4120C/-1

Length	79.38 cm (31.25 in)
Width	43.85 cm (17.25 in)
Height	4.38 cm (1.7 in)
Weight	13.26 kg (29.23 lb)
Operating Temperature	10°C to 35°C (50°F to 95°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	5% to 90%, non-condensing
19" Rack Mountable	1U configuration to fit standard 19" rack (mounting kit included)
Front and Rear Mount	I/O cabling and power cabling at back of unit; power switch at the front
Data Ports	2 x 10/25/40/50 Gbps QSFP28 (GBICs Sold Separately) 2 x 1/10 Gbps BASE-T
Management Ports	1 x 10/100/1000 Mbps Base-T 5 x USB 3.0 ports. Use one. RJ45 Console Port
Power Specifications	Power (max): 1300 W (Redundant Power Supply Included) Voltage: 110/240 VAC

Regulatory/Safety	• UL60950 - CSA 60950 (USA/Canada) • EN60950 (Europe) • IEC60950 (International) • CB Certificate and Report • IEC60950 GS Certification (Germany)	• GOSTR 50 377-92 - Certification (Russia) • Ukraine Certification (Ukraine) • CE- Low Voltage Directive • 2011/65/EU (Europe)
Emissions	• FCC/ICES-00 3 - Emissions (USA/Canada) CISPR 22 - Emissions (International) • EN55022 - Emissions (Europe) • EN55024 - Immunity (Europe) • EN6100 0 -3-2 - Harmonics (Europe) • EN6100 0 -3-3 - Voltage Flicker (Europe) • CE- EMC Directive 20 0 4/10 8 EC (Europe)	• VCCI Emissions (Japan) • AS/NZS 3548 Emissions (Australia/New Zealand) • BSMI CNS13438 Emissions (Taiwan) • GOST R 29216-91 Emissions (Russia) • GOST R 50 628-95 Immunity (Russia) • Ukraine Certification (Ukraine)

Ordering Information

Universal Compute Platform

Part Number	Description
4120C	Extreme Universal Compute Platform 4120C Appliance (Large) for ExtremeCloud Edge - Self Orchestration
4120C-1	Extreme Universal Compute Platform 4120C-1 Appliance (Large) for ExtremeCloud Edge - Managed Orchestration
1130C	Extreme Universal Compute Platform 1130C Appliance (Small) for ExtremeCloud Edge - Self Orchestration
2130C	Extreme Universal Compute Platform 2130C Appliance (Mid-Scale) for ExtremeCloud Edge - Self Orchestration
3150C	Extreme Universal Compute Platform 3150C Appliance (Large-Scale) for ExtremeCloud Edge - Self Orchestration
3160C	Extreme Universal Compute Platform 3160C Appliance (Large-Scale) for ExtremeCloud Edge - Managed Orchestration

Connectivity Accessories

SKU	Product Description	2130C Ports 3,4 SFP28	3150C/3160C Ports 1,2 SFP28	3150C/3160C Ports 3,4 QSFP28
10070H	10/100/1000BASE-T SFP, Hi	✓	✓	-
10051H	1000BASE-SX SFP, Hi	✓	✓	-
10304	1m SFP+ Cable	✓	✓	✓
10305	3m SFP+ Cable	✓	✓	✓
10306	5m SFP+ Cable	✓	✓	✓
10338	10Gb SFP+ 10GBASE-T	✓	✓	✓
10301	SR SFP+ module	✓	✓	✓
10G-SR-SFP300M-ET	10G SR SFP+ 300m Ext.Temp	✓	✓	✓
25G-DACP-SFPZ5M	25G PASSIVE DAC SFP28 0.5M	✓	✓	✓
25G-DACP-SFP1M	25G Passive DAC SFP28 1m	✓	✓	✓
25G-DACP-SFP3M	25G Passive DAC SFP28 3m	✓	✓	✓

SKU	Product Description	2130C Ports 3,4 SFP28	3150C/3160C Ports 1,2 SFP28	3150C/3160C Ports 3,4 QSFP28
10522	25Gb DAC SFP28-SFP28 5m	✓	✓	✓
25G-SR-SFP100M	25G SR SFP28 100m	✓	✓	✓
25/10G-SR-SFP100M	25G/10G SR SFP28 100M MM LC	✓	✓	✓
100G-DACP-QSFPZ5M	100G Passive DAC QSFP28 0.5m	-	-	✓
100G-DACP-QSFP4SFP1M	100G Passive DAC QSFP28 to 4xSFP28 1m	-	-	✓
100G-DACP-QSFP1M	100G Passive DAC QSFP28 1m	-	-	✓
100G-DACP-QSFP4SFP3M	100G Passive DAC QSFP28 to 4xSFP28 3m	-	-	✓
100G-DACP-QSFP3M	100G Passive DAC QSFP28 3m	-	-	✓
100G-DACP-QSFP4SFP5M	100G Passive DAC QSFP28 to 4xSFP28 5m	-	-	✓
100G-DACP-QSFP5M	100G Passive DAC QSFP28 5m	-	-	✓
100G-SR4BD-QSFP100M	100G BiDi - SR QSFP28 100m	-	-	✓
100G-SR4-QSFP100M	100G SR4 QSFP28 100m	-	-	✓
100G-SWDM4-QSFP100M	100G SWDM4 QSFP28 100m	-	-	✓
100G-DR-QSFP500M	100G DR QSFP28 500M	-	-	✓

Warranty

All UCP appliances are covered under Extreme's 1 year hardware warranty. For warranty details, visit: http://www.extremenetworks.com/support/policies.

Maintenance Services

Extreme's maintenance and support services are provided 100% by in-house engineering experts. We have a rate of over 90% first-person resolution, ensuring efficient operation of your business-essential network. With 24 x 7 x 365 phone support, advanced parts replacement, and on-site support, we augment your staff with expert resources to help you mitigate critical network issues fast. For maintenance services details, visit ExtremeWorks Maintenance Services.

Optics and Transceivers

For a list of optics and transceivers supported on the UCP platforms, refer to Extreme Optics Compatibility Tool.

Power Cords

Power cords are not included with the UCP platforms in support of our green initiatives, but can be ordered separately.