Barracuda

Barracuda SecureEdge

Secure your users, sites and things with one easy-to-deploy cloud-first platform that connects any device, app, and any cloud/hybrid environment.
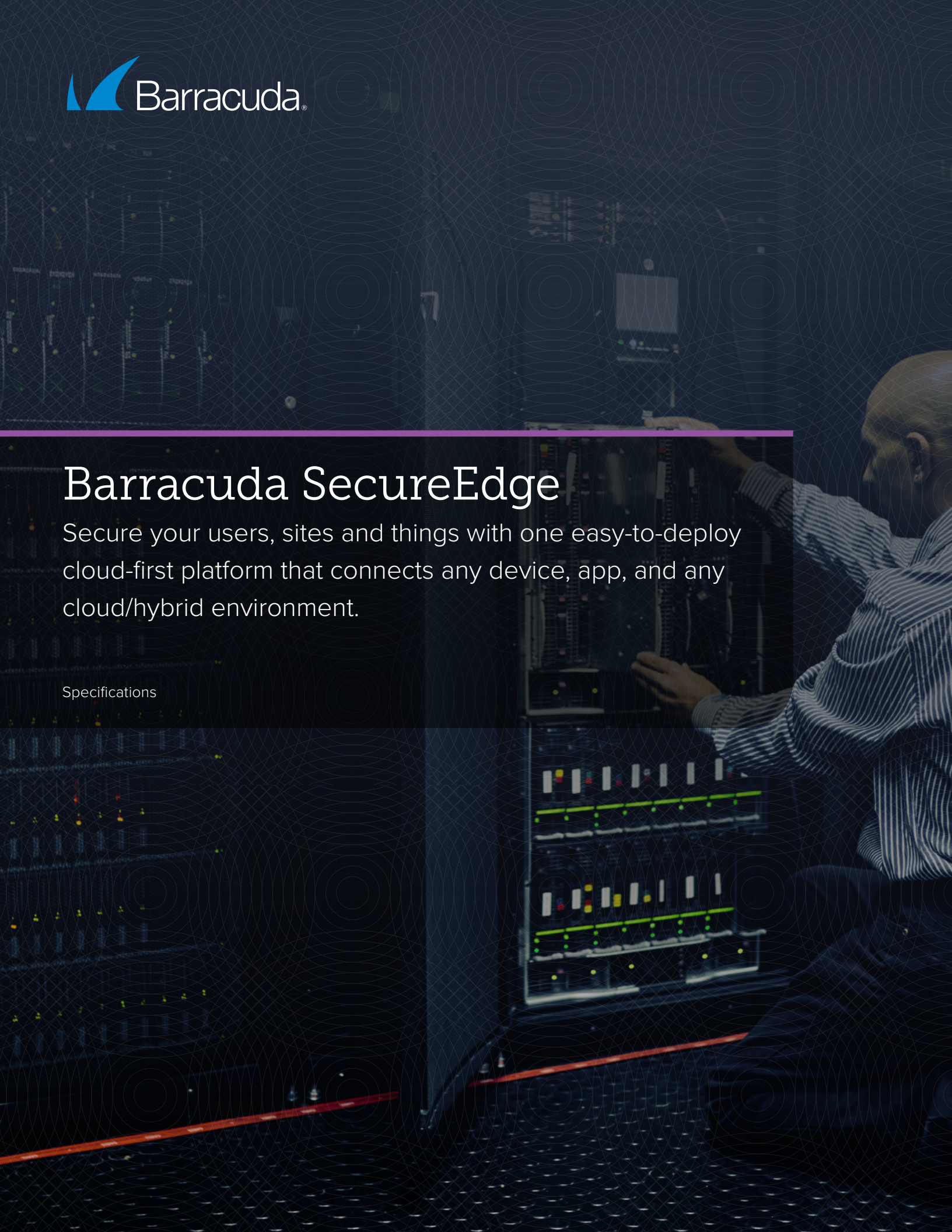
Specifications

Component overview

SecureEdge Service

for Microsoft Azure

SCALE UNIT	2	4	10	20	30	40	60	80
PERFORMANCE								
Aggregated bandwidth	1 Gbps	2 Gbps	5 Gbps	10 Gbps	15 Gbps	20 Gbps	30 Gbps	40 Gbps
Max. single tunnel performance	500 Mbps	1 Gbps	2.5 Gbps	5 Gbps	7 Gbps	10 Gbps	15 Gbps	15 Gbps
AVAILABLE SOFTWARE/FEATURE SUBSCRIPTIONS								
Energize Updates	✓	✓	✓	✓	✓	✓	✓	✓

for private cloud or on-premise

All desktop, rack mount, and virtual site devices can be promoted to run as a SecureEdge Service.

SecureEdge site devices

HARDWARE APPLIANCES	DESKTOP		1U RACK MOUNT			DIN RAIL COMPATIBLE			
	T100B	T200C	T400C	T600D	T900B	SC2	SC3	T93A	T193A
PERFORMANCE	page 4	page 5	page 6	page 7	page 8	page 9 ff.	page 13 ff.	page 17	page 18
Firewall throughput (up to)	2.0 Gbps	4.8 Gbps	13 Gbps	20 Gbps	45 Gbps	n/a	n/a	1.5 Gbps	2.1 Gbps
SD-WAN (up to)	300 Mbps	1.3 Gbps	3.0 Gbps	6.0 Gbps	9.3 Gbps	30 Mbps	30 Mbps	200 Mbps	240 Mbps
IPS throughput (up to)	600 Mbps	2.0 Gbps	4.2 Gbps	8.0 Gbps	13 Gbps	n/a	n/a	400 Mbps	790 Mbps
NGFW throughput (up to)	400 Mbps	1.6 Gbps	3.7 Gbps	6.4 Gbps	12 Gbps	n/a	n/a	400 Mbps	800 Mbps
Threat protection throughput (up to)	380 Mbps	1.5 Gbps	3.1 Gbps	5.8 Gbps	11.5 Gbps	n/a	n/a	380 Mbps	700 Mbps
Recommended no. of users	50-100	150-300	300-1,000	1,000-4,000	6,000-9,000	n/a	n/a	50-100	150-300
Concurrent sessions	80,000	300,000	500,000	2,100,000	4,000,000	n/a	n/a	80,000	250,000
New session/s	8,000	12,000	20,000	115,000	190,000	n/a	n/a	8,000	12,000
HARDWARE									
Rugged hardware version	-	-	-	-	-	-	✓	✓	✓
Copper ethernet NICs [1 GbE]	5x	12x	8x	10x	8x	4x	4x	2x	5x
Fiber NICs (SFP) [1 GbE]	-	4x	-	8x	8x	-	-	1x	2x
Fiber NICs (SFP+) [10 GbE]	-	-	2x	2x	4x	-	-	-	-
Fiber NICs (QSFP+) [40 GbE]	-	-	-	-	2x	-	-	-	-
AVAILABLE SOFTWARE/FEATURE SUBSCRIPTIONS									
Energize Updates	MANDATORY								

VIRTUAL APPLIANCES	VT100	VT500	VT1500	VT3000	VT5000
PERFORMANCE					
SD-WAN throughput (up to)	300 Mbps	700 Mbps	1.5 Gbps	3.8 Gbps	9.3 Gbps
Recommended no. of users	50-100	150-300	300-1,000	1,000-4,000	6,000-9,000
Concurrent sessions	80,000	250,000	500,000	2,100,000	4,000,000
New session/s	8,000	12,000	20,000	115,000	190,000
HARDWARE					
Licensed vCPUs	2	4	8	10	up to 32
Virtual NICs	5-16x	5-16x	5-16x	5-16x	5-16x
AVAILABLE SOFTWARE/FEATURE SUBSCRIPTIONS					
Energize Updates	MANDATORY				

T100B

INTERFACES	
Copper ethernet NICs (1 GbE)	5x
USB 3.0	2x
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput [Gbps][a]	2.0
SD-WAN throughput [Mbps][b]	300
IPS throughput [Mpbs][c]	600
NGFW throughput [Mbps][d]	400
Threat protection throughput [Mbps][e]	380
Concurrent sessions	80,000
New sessions/s	8,000
Max. number of concurrent users	50-100
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	4.4 / 2.0
Appliance size: width x depth x height [in]	9.1 x 6.0 x 1.7
Appliance size: width x depth x height [mm]	232 x 153 x 44
Weight carton with appliance [lbs] / [kg]	7.7 / 3.5
Carton size: width x depth x height [in]	12.2 x 10.2 x 7.1
Carton size: width x depth x height [mm]	310 x 260 x 180
Form factor	Desktop
HARDWARE	
Display	-
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][f]	> 4
POWER AND EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input ratings [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	✓
Max. power draw [W]	810
Max. power draw @ 120V [Amps]	6.8
Max. power draw @ 230V [Amps]	3.5
Max. heat dissipation [W]	680
Max. heat dissipation [BTU]	2,322
Energy efficiency (average)	> 86%
CERTIFICATIONS AND COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
External power brick and cables	✓
USB flash drive for recovery and installation	✓
Quick start guide	✓
2x Barracuda L-shape rack mount bracket	✓
Barracuda rail kit	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large UDP packets (MTU1500), bi-directional across multiple ports.

b   SD-WAN throughput is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured with large UDP packets (MTU1500) and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and cloud-based antivirus and SSL inspection enabled (as part of an active Advanced Threat Protection subscription), based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

T200C

INTERFACES	
Copper ethernet NICs (1 GbE)	12x
SFP fiber NICs (1 GbE)	4x
USB 3.0	2x
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput [Gbps][a]	4.8
SD-WAN throughput [Gbps][b]	1.3
IPS throughput [Gpbs][c]	2.0
NGFW throughput [Gbps][d]	1.6
Threat protection throughput [Gbps][e]	1.5
Concurrent sessions	300,000
New sessions/s	12,000
Max. number of concurrent users	150-300
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	5.1 / 2.3
Appliance size: width x depth x height [in]	11.8 x 8.6 x 1.7
Appliance size: width x depth x height [mm]	300 x 219 x 44
Weight carton with appliance [lbs] / [kg]	10.1 / 4.6
Carton size: width x depth x height [in]	15.7 x 13.4 x 7.3
Carton size: width x depth x height [mm]	400 x 340 x 185
Form factor	Desktop
HARDWARE	
Display	-
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 40
Operating temperature [°F] / [°C]	+30 to +95 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	10% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][f]	> 5
POWER AND EFFICIENCY	
Power supply	Single
Power supply type	External power brick
Power type [AC/DC]	AC
Input ratings [Volts]	90-264
Input frequency [Hz]	50-60
Auto sense	n/a
Max. power draw [W]	90
Max. power draw @ 120V [Amps]	4
Max. power draw @ 230V [Amps]	2
Max. heat dissipation [W]	52
Max. heat dissipation [BTU]	180
Energy efficiency (average)	> 89%
CERTIFICATIONS AND COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
External power brick and cables	✓
USB flash drive for recovery and installation	✓
Quick start guide	✓
2x Wireless antenna	✓
2x Barracuda L-shape rack mount bracket	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large UDP packets (MTU1500), bi-directional across multiple ports.

b   SD-WAN throughput is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured with large UDP packets (MTU1500) and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and cloud-based antivirus and SSL inspection enabled (as part of an active Advanced Threat Protection subscription), based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

T400C

INTERFACES	
Copper ethernet NICs (1 GbE)	8x
SFP+ fiber NICs (10 GbE)	2x
USB 3.0	2x
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput [Gbps][a]	13
SD-WAN throughput [Gbps][b]	3.0
IPS throughput [Gpbs][c]	4.2
NGFW throughput [Gbps][d]	3.7
Threat protection throughput [Gbps][e]	3.1
Concurrent sessions	500,000
New sessions/s	20,000
Max. number of concurrent users	300-1,000
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	80
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	16.5 / 7.5
Appliance size: width x depth x height [in]	17.2 x 17.3 x 1.7
Appliance size: width x depth x height [mm]	438 x 440 x 44
Weight carton with appliance [lbs] / [kg]	22.5 / 10.2
Carton size: width x depth x height [in]	24.4 x 23.2 x 7.9
Carton size: width x depth x height [mm]	620 x 590 x 200
Form factor	1U rack mount
HARDWARE	
Display	✓
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	+30 to +95 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][f]	> 5
POWER AND EFFICIENCY	
Power supply	Single
Power supply type	Internal
Power type [AC/DC]	AC
Input ratings [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	✓
Max. power draw [W]	300
Max. power draw @ 120V [Amps]	5
Max. power draw @ 230V [Amps]	2.6
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1,024
Energy efficiency (average)	> 80%
CERTIFICATIONS AND COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
Direct power-to-wall outlet	✓
USB flash drive for recovery and installation	✓
Quick start guide	✓
2x Barracuda L-shape rack mount bracket	✓
Barracuda rail kit	Optional

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large UDP packets (MTU1500), bi-directional across multiple ports.

b   SD-WAN throughput is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured with large UDP packets (MTU1500) and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and cloud-based antivirus and SSL inspection enabled (as part of an active Advanced Threat Protection subscription), based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

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T600D

INTERFACES	
Copper ethernet NICs (1 GbE)	10x
SFP fiber NICs (1 GbE)	8x
SFP+ fiber NICs (10 GbE)	2x
USB 2.0	2x
Serial / console	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput [Gbps][a]	20
SD-WAN throughput [Gbps][b]	6.0
IPS throughput [Gpbs][c]	8.0
NGFW throughput [Gbps][d]	6.4
Threat protection throughput [Gbps][e]	5.8
Concurrent sessions	2,100,000
New sessions/s	115,000
Max. number of concurrent users	1,000-4,000
MEMORY	
RAM [GB]	8
MASS STORAGE	
Type	SSD
Size ([GB] or better)	240
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	22.0 / 10.0
Appliance size: width x depth x height [in]	17.3 x 19.7 x 1.7
Appliance size: width x depth x height [mm]	440 x 500 x 44
Weight carton with appliance [lbs] / [kg]	26.5 / 12.0
Carton size: width x depth x height [in]	25.6 x 23.2 x 7.9
Carton size: width x depth x height [mm]	650 x 590 x 200
Form factor	1U rack mount
HARDWARE	
Display	✓
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

MTBF [SYSTEM]	
MTBF [yrs.][f]	> 5
POWER AND EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input ratings [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	✓
Max. power draw [W]	300
Max. power draw @ 120V [Amps]	5
Max. power draw @ 230V [Amps]	2.6
Max. heat dissipation [W]	300
Max. heat dissipation [BTU]	1,024
Energy efficiency (average)	> 80%
CERTIFICATIONS AND COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
Direct power-to-wall outlet	✓
USB flash drive for recovery and installation	✓
Quick start guide	✓
2x Barracuda L-shape rack mount bracket	✓
Barracuda rail kit	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large UDP packets (MTU1500), bi-directional across multiple ports.

b   SD-WAN throughput is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured with large UDP packets (MTU1500) and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and cloud-based antivirus and SSL inspection enabled (as part of an active Advanced Threat Protection subscription), based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

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T900B

INTERFACES	
Copper ethernet NICs (1 GbE)	8x
SFP fiber NICs (1 GbE)	8x
SFP+ fiber NICs (10 GbE)	4x
QSFP+ fiber NICs (40 GbE)	2x
USB 2.0	2x
IPMI	1x RJ45
Serial / console	1x RJ45
Management	1x RJ45
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput [Gbps][a]	45
SD-WAN throughput [Gbps][b]	9.3
IPS throughput [Gpbs][c]	13
NGFW throughput [Gbps][d]	12
Threat protection throughput [Gbps][e]	11.5
Concurrent sessions	4,000,000
New sessions/s	190,000
Max. number of concurrent users	6,000-9,000
MEMORY	
RAM ([GB] or better)	32
MASS STORAGE	
Type	SSD
Size ([GB] or better)	430
SSD MTBF [hours]	1,200,000
SIZE, WEIGHT, DIMENSIONS	
Weight appliance [lbs] / [kg]	26.0 / 12.0
Appliance size: width x depth x height [in]	17.2 x 22.4 x 1.7
Appliance size: width x depth x height [mm]	440 x 570 x 44
Weight carton with appliance [lbs] / [kg]	44.0 / 20.0
Carton size: width x depth x height [in]	23.0 x 30.5 x 9.0
Carton size: width x depth x height [mm]	585 x 775 x 229
Form factor	1U rack mount
HARDWARE	
Display	✓
Cooling	Fan
ENVIRONMENTAL	
Noise emission [db/A]	< 75
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
Storage temperature [°F] / [°C]	-4 to +167 / -20 to +75
Operating humidity (non-condensing)	10% to 85%

MTBF [SYSTEM]	
MTBF [yrs.][f]	> 4
POWER AND EFFICIENCY	
Power supply	Dual hot swap
Power supply type	Internal
Power type [AC/DC]	AC
Input ratings [Volts]	100-240
Input frequency [Hz]	50-60
Auto sense	✓
Max. power draw [W]	500
Max. power draw @ 120V [Amps]	8
Max. power draw @ 230V [Amps]	4
Max. heat dissipation [W]	~ 400
Max. heat dissipation [BTU]	~ 1,366
Energy efficiency (average)	88%
CERTIFICATIONS AND COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
Direct power-to-wall outlet	✓
USB flash drive for recovery and installation	✓
Quick start guide	✓
2x Barracuda L-shape rack mount bracket	✓
Barracuda rail kit	✓

All performance values are measured under optimized conditions and are to be considered as „up to"
values and may vary depending on system configuration and infrastructure:

a   Firewall throughput measured with large UDP packets (MTU1500), bi-directional
across multiple ports.

b   SD-WAN throughput is based on 1415 Byte UDP packets, bidirectional using
BreakingPoint traffic generator.

c   IPS throughput is measured with large UDP packets (MTU1500) and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on
BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and cloud-
based antivirus and SSL inspection enabled (as part of an active Advanced Threat Protection
subscription), based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across
multiple ports.

f   MTBF according to common usage. High load on SSD and extreme environmental conditions
might reduce MTBF.

Errors and omissions excepted. Specifications subject to change without notice.

FSC20

INTERFACES	
WAN copper ethernet NICs (PoE-recipient; 1 GbE)	1x
LAN copper NICs (LAN switch; 1 GbE)	3x
USB 2.0	1
Micro-USB OTG	1
WiFi (access point / client mode)	-
SUPPORTED CELLULAR NETWORKS	
GSM / UMTS	-
4G / LTE	-
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput (UDP) [Mbps]	300
WiFi AP mode throughput (UDP) [Mbps]	N/A
SD-WAN throughput (AES-128, SHA) [Mbps][a]	30
MEMORY	
RAM [GB]	1
MASS STORAGE	
Type	Micro SD
Size [GB]	16
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 20)	
Weight appliance [lbs] / [kg]	1.21 / 0.55
Appliance size: width x depth x height [in]	1.5 x 5.5 x 5.9
Appliance size: width x depth x height [mm]	37 x 140 x 150
Weight carton with appliance [lbs] / [kg]	1.98 / 0.9
Carton size: width x depth x height [in]	2.6 x 9.1 x 10.8
Carton size: width x depth x height [mm]	65 x 230 x 275
Form factor	Compact, DIN rail
HARDWARE	
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][b]	> 5
DEFAULT POWER SUPPLY	
AuxDC in voltage range [V][c]	12 - 57
WAN Port PoE Voltage range [V]	37 - 54
Compatible PoE provider (PSE)	IEEE 802.3at (Type 2) PD
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Max. power draw [W]	40
Max. power draw @ 12V [Amps.]	3.33
Max. heat dissipation [W]	40
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS & COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
USB type A to MicroUSB cable	✓
External power brick & cables	Optional
Quick start guide	✓
1x DIN rail bracket	✓
1x 2-pin power connector	✓
2x WiFi antenna	-
2x Cellular antenna with 1.5m cable	-

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   SD-WAN to SASE is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

b   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

c   2-pin terminal block MC420 3.5mm

Errors and omissions excepted. Specifications subject to change without notice.

This appliance is PoE-recipient compatible and, thus, has no external power brick included. However, an external power brick can be ordered as an option.

FSC21

INTERFACES	
WAN copper ethernet NICs (PoE-recipient; 1 GbE)	1x
LAN copper NICs (LAN switch; 1 GbE)	3x
USB 2.0	1
Micro-USB OTG	1
WiFi (access point / client mode)	✓
SUPPORTED CELLULAR NETWORKS	
GSM / UMTS	-
4G / LTE	-
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput (UDP) [Mbps]	300
WiFi AP mode throughput (UDP) [Mbps]	80
SD-WAN throughput (AES-128, SHA) [Mbps][a]	30
MEMORY	
RAM [GB]	1
MASS STORAGE	
Type	Micro SD
Size [GB]	16
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 21)	
Weight appliance [lbs] / [kg]	1.21 / 0.55
Appliance size: width x depth x height [in]	1.5 x 5.5 x 5.9
Appliance size: width x depth x height [mm]	37 x 140 x 150
Weight carton with appliance [lbs] / [kg]	1.98 / 0.9
Carton size: width x depth x height [in]	2.6 x 9.1 x 10.8
Carton size: width x depth x height [mm]	65 x 230 x 275
Form factor	Compact, DIN rail
HARDWARE	
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][b]	> 5
DEFAULT POWER SUPPLY	
AuxDC in voltage range [V][c]	12 - 57
WAN Port PoE Voltage range [V]	37 - 54
Compatible PoE provider (PSE)	IEEE 802.3at (Type 2) PD
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Max. power draw [W]	40
Max. power draw @ 12V [Amps.]	3.33
Max. heat dissipation [W]	40
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS & COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
USB type A to MicroUSB cable	✓
External power brick & cables	Optional
Quick start guide	✓
1x DIN rail bracket	✓
1x 2-pin power connector	✓
2x WiFi antenna	✓
2x Cellular antenna with 1.5m cable	-

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   SD-WAN to SASE is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

b   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

c   2-pin terminal block MC420 3.5mm

Errors and omissions excepted. Specifications subject to change without notice.

This appliance is PoE-recipient compatible and, thus, has no external power brick included. However, an external power brick can be ordered as an option.

FSC24

INTERFACES	
WAN copper ethernet NICs (PoE-recipient; 1 GbE)	1x
LAN copper NICs (LAN switch; 1 GbE)	3x
USB 2.0	1
Micro-USB OTG	1
WiFi (access point / client mode)	-
SUPPORTED CELLULAR NETWORKS	
GSM / UMTS	✓ (International)
4G / LTE	✓ (International)
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput (UDP) [Mbps]	300
WiFi AP mode throughput (UDP) [Mbps]	N/A
SD-WAN throughput (AES-128, SHA) [Mbps][a]	30
MEMORY	
RAM [GB]	1
MASS STORAGE	
Type	Micro SD
Size [GB]	16
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 22)	
Weight appliance [lbs] / [kg]	1.21 / 0.55
Appliance size: width x depth x height [in]	1.5 x 5.5 x 5.9
Appliance size: width x depth x height [mm]	37 x 140 x 150
Weight carton with appliance [lbs] / [kg]	1.98 / 0.9
Carton size: width x depth x height [in]	2.6 x 9.1 x 10.8
Carton size: width x depth x height [mm]	65 x 230 x 275
Form factor	Compact, DIN rail
HARDWARE	
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

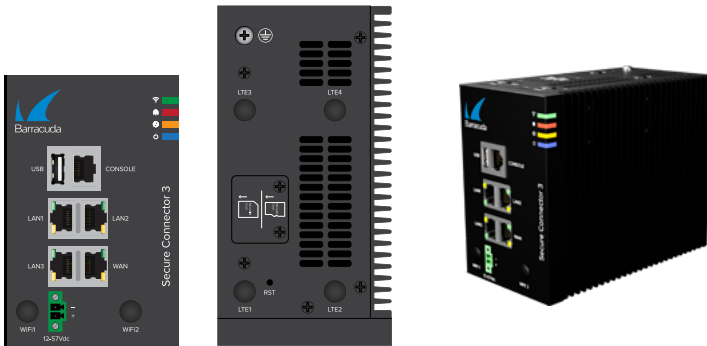| MTBF [SYSTEM]	
MTBF [yrs.][b]	> 5
DEFAULT POWER SUPPLY	
AuxDC in voltage range [V][c]	12 - 57
WAN Port PoE Voltage range [V]	37 - 54
Compatible PoE provider (PSE)	IEEE 802.3at (Type 2) PD
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Max. power draw [W]	40
Max. power draw @ 12V [Amps.]	3.33
Max. heat dissipation [W]	40
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS & COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
USB type A to MicroUSB cable	✓
External power brick & cables	Optional
Quick start guide	✓
1x DIN rail bracket	✓
1x 2-pin power connector	✓
2x WiFi antenna	-
2x Cellular antenna with 1.5m cable	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   SD-WAN to SASE is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

b   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

c   2-pin terminal block MC420 3.5mm

Errors and omissions excepted. Specifications subject to change without notice.

This appliance is PoE-recipient compatible and, thus, has no external power brick included. However, an external power brick can be ordered as an option.

FSC25

INTERFACES	
WAN copper ethernet NICs (PoE-recipient; 1 GbE)	1x
LAN copper NICs (LAN switch; 1 GbE)	3x
USB 2.0	1
Micro-USB OTG	1
WiFi (access point / client mode)	✓
SUPPORTED CELLULAR NETWORKS	
GSM / UMTS	✓ (International)
4G / LTE	✓ (International)
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput (UDP) [Mbps]	300
WiFi AP mode throughput (UDP) [Mbps]	80
SD-WAN throughput (AES-128, SHA) [Mbps][a]	30
MEMORY	
RAM [GB]	1
MASS STORAGE	
Type	Micro SD
Size [GB]	16
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 23)	
Weight appliance [lbs] / [kg]	1.21 / 0.55
Appliance size: width x depth x height [in]	1.5 x 5.5 x 5.9
Appliance size: width x depth x height [mm]	37 x 140 x 150
Weight carton with appliance [lbs] / [kg]	1.98 / 0.9
Carton size: width x depth x height [in]	2.6 x 9.1 x 10.8
Carton size: width x depth x height [mm]	65 x 230 x 275
Form factor	Compact, DIN rail
HARDWARE	
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	+30 to +105 / 0 to +40
Storage temperature [°F] / [°C]	-5 to +160 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.][b]	> 5
DEFAULT POWER SUPPLY	
AuxDC in voltage range [V][c]	12 - 57
WAN Port PoE Voltage range [V]	37 - 54
Compatible PoE provider (PSE)	IEEE 802.3at (Type 2) PD
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single
Power supply type	External brick
Power type [AC/DC]	AC
Input rating [Volts]	100-240
Input frequency [Hz]	50-60
Max. power draw [W]	40
Max. power draw @ 12V [Amps.]	3.33
Max. heat dissipation [W]	40
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS & COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
USB type A to MicroUSB cable	✓
External power brick & cables	Optional
Quick start guide	✓
1x DIN rail bracket	✓
1x 2-pin power connector	✓
2x WiFi antenna	✓
2x Cellular antenna with 1.5m cable	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   SD-WAN to SASE is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

b   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

c   2-pin terminal block MC420 3.5mm

Errors and omissions excepted. Specifications subject to change without notice.

This appliance is PoE-recipient compatible and, thus, has no external power brick included. However, an external power brick can be ordered as an option.

FSC30

INTERFACES	
WAN copper ethernet NICs (PoE-recipient; 1 GbE)	1x
LAN copper NICs (LAN switch; 1 GbE)	3x
USB 2.0	1
Serial console	RJ45
WiFi (access point / client mode)	N/A
SUPPORTED CELLULAR NETWORKS	
4G / LTE	N/A
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput (UDP) [Mbps]	300
WiFi AP mode throughput (UDP) [Mbps]	N/A
SD-WAN throughput (AES-128, SHA) [Mbps] [a]	30
MEMORY	
RAM [GB]	2
MASS STORAGE	
Size On-board [GB]	8
Size Micro SD [GB]	16
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 24)	
Weight appliance [lbs] / [kg]	2.54 / 1.15
Appliance size: width x depth x height [in]	3.07 x 4.72 x 5.91
Appliance size: width x depth x height [mm]	78 x 120 x 150
Weight carton with appliance [lbs] / [kg]	4.08 / 1.85
Carton size: width x depth x height [in]	7.48 x 8.94 x 7
Carton size: width x depth x height [mm]	190 x 227 x 178
Form factor	Rugged, DIN rail
HARDWARE	
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	-4 to +158 / -20 to +70
Storage temperature [°F] / [°C]	-4 to +158 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

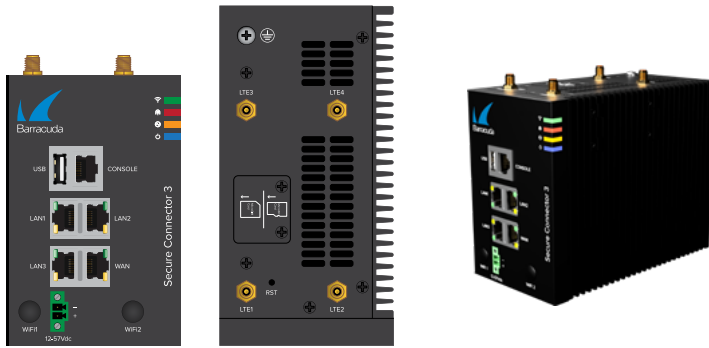| MTBF [SYSTEM]	
MTBF [yrs.] [b	> 5
DEFAULT POWER SUPPLY	
AuxDC in voltage range [V] [c]	12 - 57
WAN Port PoE Voltage range [V]	37 - 54
Compatible PoE provider (PSE)	IEEE 802.3at (Type 2) PD
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single, external
Power supply type	External brick
Power type [AC/DC]	DC
Input rating [Volts]	12-36
Max. power draw [W]	60
Max. power draw @ 12V [Amps.]	2.5
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS & COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
Shock and vibration resistance	IEC 60068
	IEC 60950
	IEC 61000
	ISTA 2A
Protection classification	IP20 standard
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
External power brick & cables	Optional
Quick start guide	✓
1x DIN rail bracket	✓
1x 2-pin power connector	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   SD-WAN to SASE is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

b   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

c   2-pin terminal block MC420 3.5mm

Errors and omissions excepted. Specifications subject to change without notice.

This appliance is PoE-recipient compatible and, thus, has no external power brick included. However, an external power brick can be ordered as an option.

FSC31

INTERFACES	
WAN copper ethernet NICs (PoE-recipient; 1 GbE)	1x
LAN copper NICs (LAN switch; 1 GbE)	3x
USB 2.0	1
Serial console	RJ45
WiFi (access point / client mode)	✓
SUPPORTED CELLULAR NETWORKS	
4G / LTE	N/A
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput (UDP) [Mbps]	300
WiFi AP mode throughput (UDP) [Mbps]	80
SD-WAN throughput (AES-128, SHA) [Mbps] [a]	30
MEMORY	
RAM [GB]	2
MASS STORAGE	
Size On-board [GB]	8
Size Micro SD [GB]	16
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 25)	
Weight appliance [lbs] / [kg]	2.54 / 1.15
Appliance size: width x depth x height [in]	3.07 x 4.72 x 5.91
Appliance size: width x depth x height [mm]	78 x 120 x 150
Weight carton with appliance [lbs] / [kg]	4.08 / 1.85
Carton size: width x depth x height [in]	7.48 x 8.94 x 7
Carton size: width x depth x height [mm]	190 x 227 x 178
Form factor	Rugged, DIN rail
HARDWARE	
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	-4 to +158 / -20 to +70
Storage temperature [°F] / [°C]	-4 to +158 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

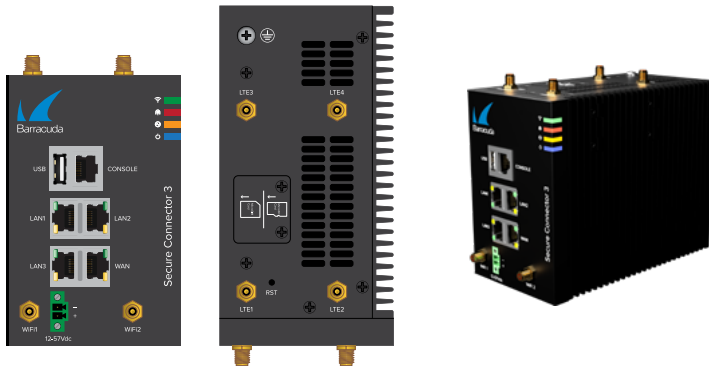| MTBF [SYSTEM]	
MTBF [yrs.] [b]	> 5
DEFAULT POWER SUPPLY	
AuxDC in voltage range [V] [c]	12 - 57
WAN Port PoE Voltage range [V]	37 - 54
Compatible PoE provider (PSE)	IEEE 802.3at (Type 2) PD
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single, external
Power supply type	External brick
Power type [AC/DC]	DC
Input rating [Volts]	12-36
Max. power draw [W]	60
Max. power draw @ 12V [Amps.]	2.5
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS & COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
Shock and vibration resistance	IEC 60068
	IEC 60950
	IEC 61000
	ISTA 2A
Protection classification	IP20 standard
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
External power brick & cables	Optional
Quick start guide	✓
1x DIN rail bracket	✓
1x 2-pin power connector	✓
2x WiFi antenna	✓
4x Cellular antenna with 1.5m cable	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   SD-WAN to SASE is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

b   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

c   2-pin terminal block MC420 3.5mm

Errors and omissions excepted. Specifications subject to change without notice.

This appliance is PoE-recipient compatible and, thus, has no external power brick included. However, an external power brick can be ordered as an option.

FSC34

INTERFACES	
WAN copper ethernet NICs (PoE-recipient; 1 GbE)	1x
LAN copper NICs (LAN switch; 1 GbE)	3x
USB 2.0	1
Serial console	RJ45
WiFi (access point / client mode)	N/A
SUPPORTED CELLULAR NETWORKS	
4G / LTE	✓
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput (UDP) [Mbps]	300
WiFi AP mode throughput (UDP) [Mbps]	N/A
SD-WAN throughput (AES-128, SHA) [Mbps] [a]	30
MEMORY	
RAM [GB]	2
MASS STORAGE	
Size On-board [GB]	8
Size Micro SD [GB]	16
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 26)	
Weight appliance [lbs] / [kg]	2.54 / 1.15
Appliance size: width x depth x height [in]	3.07 x 4.72 x 5.91
Appliance size: width x depth x height [mm]	78 x 120 x 150
Weight carton with appliance [lbs] / [kg]	4.08 / 1.85
Carton size: width x depth x height [in]	7.48 x 8.94 x 7
Carton size: width x depth x height [mm]	190 x 227 x 178
Form factor	Rugged, DIN rail
HARDWARE	
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	-4 to +158 / -20 to +70
Storage temperature [°F] / [°C]	-4 to +158 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

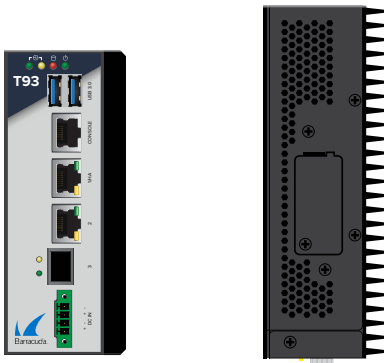| MTBF [SYSTEM]	
MTBF [yrs.] [b]	> 5
DEFAULT POWER SUPPLY	
AuxDC in voltage range [V] [c]	12 - 57
WAN Port PoE Voltage range [V]	37 - 54
Compatible PoE provider (PSE)	IEEE 802.3at (Type 2) PD
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single, external
Power supply type	External brick
Power type [AC/DC]	DC
Input rating [Volts]	12-36
Max. power draw [W]	60
Max. power draw @ 12V [Amps.]	2.5
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS & COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
Shock and vibration resistance	IEC 60068
	IEC 60950
	IEC 61000
	ISTA 2A
Protection classification	IP20 standard
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
External power brick & cables	Optional
Quick start guide	✓
1x DIN rail bracket	✓
1x 2-pin power connector	✓
4x Cellular antenna with 1.5m cable	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   SD-WAN to SASE is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

b   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

c   2-pin terminal block MC420 3.5mm

Errors and omissions excepted. Specifications subject to change without notice.

This appliance is PoE-recipient compatible and, thus, has no external power brick included. However, an external power brick can be ordered as an option.

FSC35

INTERFACES	
WAN copper ethernet NICs (PoE-recipient; 1 GbE)	1x
LAN copper NICs (LAN switch; 1 GbE)	3x
USB 2.0	1
Serial console	RJ45
WiFi (access point / client mode)	✓
SUPPORTED CELLULAR NETWORKS	
4G / LTE	✓
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput (UDP) [Mbps]	300
WiFi AP mode throughput (UDP) [Mbps]	80
SD-WAN throughput (AES-128, SHA) [Mbps] [a]	30
MEMORY	
RAM [GB]	2
MASS STORAGE	
Size On-board [GB]	8
Size Micro SD [GB]	16
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 27)	
Weight appliance [lbs] / [kg]	2.54 / 1.15
Appliance size: width x depth x height [in]	3.07 x 4.72 x 5.91
Appliance size: width x depth x height [mm]	78 x 120 x 150
Weight carton with appliance [lbs] / [kg]	4.08 / 1.85
Carton size: width x depth x height [in]	7.48 x 8.94 x 7
Carton size: width x depth x height [mm]	190 x 227 x 178
Form factor	Rugged, DIN rail
HARDWARE	
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	N/A
Operating temperature [°F] / [°C]	-4 to +158 / -20 to +70
Storage temperature [°F] / [°C]	-4 to +158 / -20 to +70
Operating humidity (non-condensing)	5% to 95%

MTBF [SYSTEM]	
MTBF [yrs.] [b]	> 5
DEFAULT POWER SUPPLY	
AuxDC in voltage range [V] [c]	12 - 57
WAN Port PoE Voltage range [V]	37 - 54
Compatible PoE provider (PSE)	IEEE 802.3at (Type 2) PD
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single, external
Power supply type	External brick
Power type [AC/DC]	DC
Input rating [Volts]	12-36
Max. power draw [W]	60
Max. power draw @ 12V [Amps.]	2.5
Max. heat dissipation [W]	60
Max. heat dissipation [BTU]	205
Energy efficiency [average]	> 83%
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS & COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
Shock and vibration resistance	IEC 60068
	IEC 60950
	IEC 61000
	ISTA 2A
Protection classification	IP20 standard
PACKAGING CONTENT	
Appliance	✓
Straight network cable	✓
External power brick & cables	Optional
Quick start guide	✓
1x DIN rail bracket	✓
1x 2-pin power connector	✓
2x WiFi antenna	✓
4x Cellular antenna with 1.5m cable	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

a   SD-WAN to SASE is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

b   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

c   2-pin terminal block MC420 3.5mm

Errors and omissions excepted. Specifications subject to change without notice.

This appliance is PoE-recipient compatible and, thus, has no external power brick included. However, an external power brick can be ordered as an option.

T93A

INTERFACES	
Copper ethernet NICs (1 GbE RJ45)	2x
SFP fiber NICs (1 GbE)	1x
USB 3.0	2x
ESD protection	15KV
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput [Gbps][a]	1.5
SD-WAN throughput [Mbps][b]	200
IPS throughput [Mpbs][c]	400
NGFW throughput [Mbps][d]	400
Threat protection throughput [Mbps][e]	380
Concurrent sessions	80,000
New sessions/s	8,000
Max. number of concurrent users	50-100
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	100
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 28)	
Weight appliance [lbs] / [kg]	2.6 / 1.2
Appliance size: width x depth x height [in]	2.04 x 5.9 x 5.11
Appliance size: width x depth x height [mm]	52 x 150 x 130
Weight carton with appliance [lbs] / [kg]	4.8 / 2.2
Carton size: width x depth x height [in]	10 x 10 x 12
Carton size: width x depth x height [mm]	254 x 254 x 305
Form factor	Compact, DIN rail mount
HARDWARE	
Display	-
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	-40 to +167 / -40 to +75
Storage temperature [°F] / [°C]	-40 to +185 / -40 to +85
Operating humidity (non-condensing)	5% to 95%
Magnetic isolation protection	1.5KV built-in

MTBF [SYSTEM]	
MTBF [yrs.][f]	> 9
DEFAULT POWER SUPPLY	
Power supply	Single
Power supply type	Phoenix 4-pin with lock
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply	Single, ext. power brick
Power supply type	External power brick
Power type [AC/DC]	DC
Input ratings [Volts]	12-36
Max. power draw [W]	60
Max. power draw @ 24V [Amps]	2.5
Max. heat dissipation [W]	60
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS AND COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
Shock and vibration resistance	IEC 60068
	IEC 60950
	IEC 61000
	ISTA 2A
Protection classification	IP20
PACKAGING CONTENT	
Appliance	✓
DIN rail mount bracket	✓
Quick start guide	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:
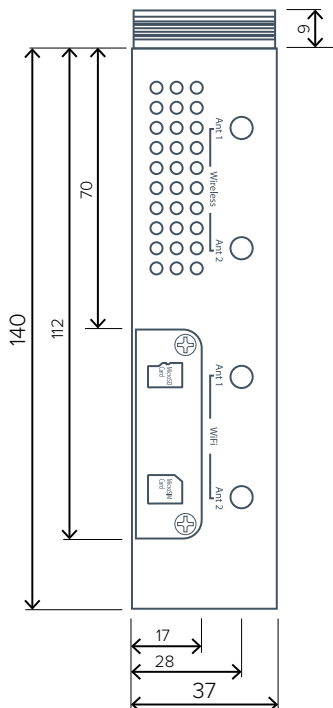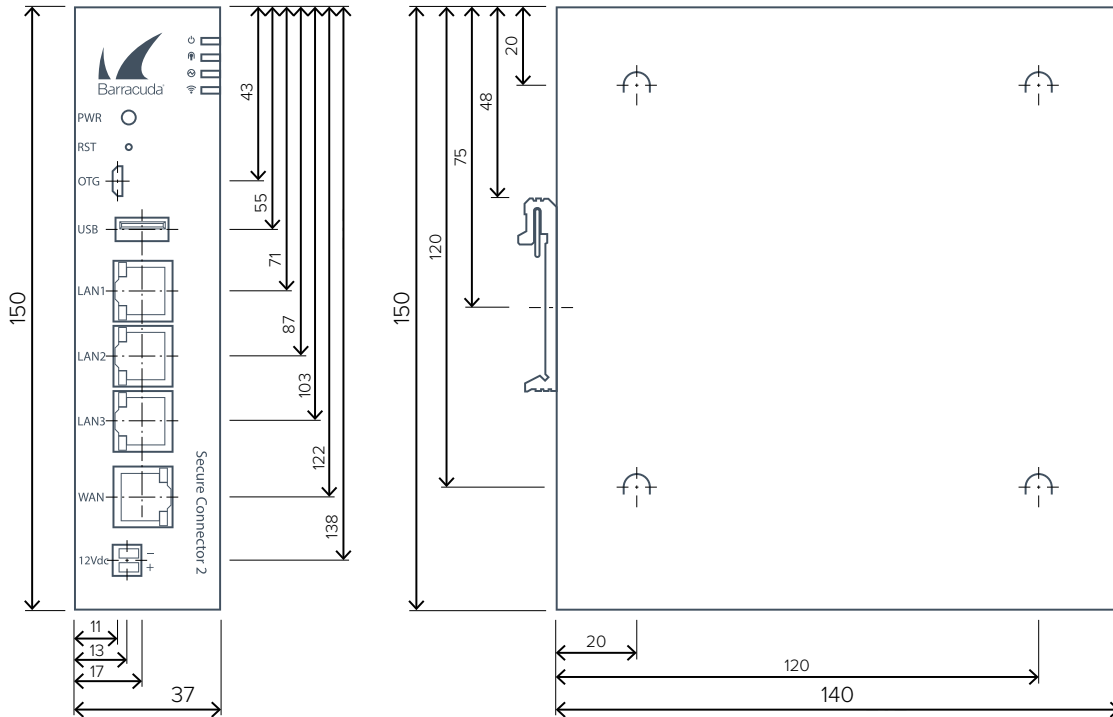
a   Firewall throughput measured with large UDP packets (MTU1500), bi-directional across multiple ports.

b   SD-WAN throughput is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

c   IPS throughput is measured with large UDP packets (MTU1500) and across multiple ports.

d   NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

e   Threat protection throughput is measured with IPS, application control, web filter, and cloud-based antivirus and SSL inspection enabled (as part of an active Advanced Threat Protection subscription), based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

f   MTBF according to common usage. High load on SSD and extreme environmental conditions might reduce MTBF.

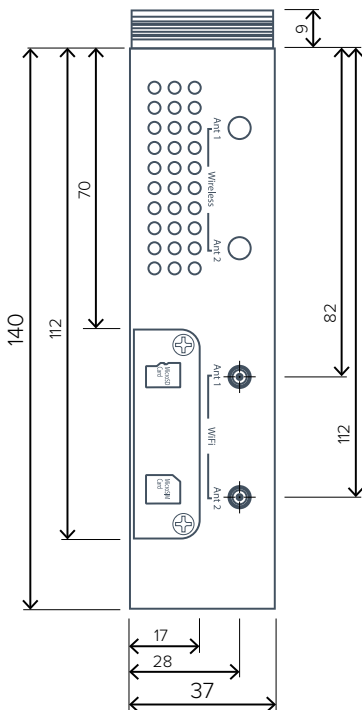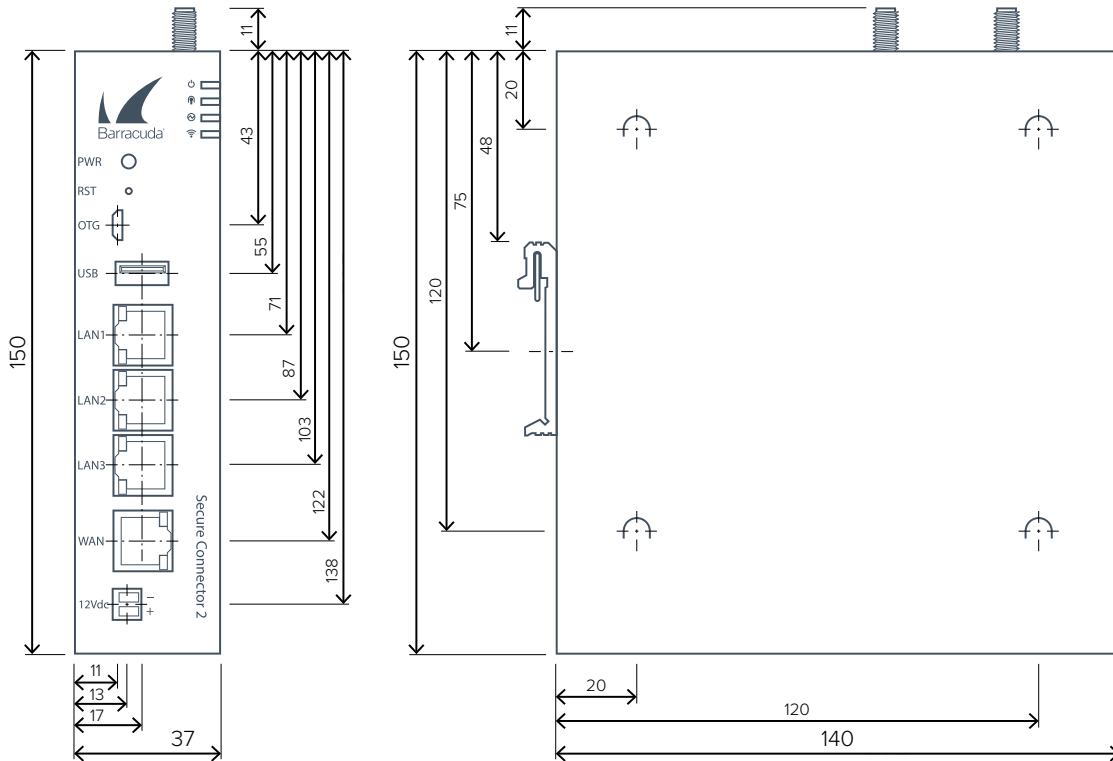Errors and omissions excepted. Specifications subject to change without notice.

T193A

INTERFACES	
Copper ethernet NICs (1 GbE RJ45)	5x
SFP fiber NICs (1 GbE)	2x
USB 3.0	2x
ESD protection	15KV
PERFORMANCE [AS OF FIRMWARE RELEASE 9.0.X]	
Firewall throughput [Gbps][a]	2.1
SD-WAN throughput [Mbps][b]	240
IPS throughput [Mpbs][c]	790
NGFW throughput [Mbps][d]	800
Threat protection throughput [Gbps][e]	700
Concurrent sessions	250,000
New sessions/s	12,000
Max. number of concurrent users	150-300
MEMORY	
RAM [GB]	4
MASS STORAGE	
Type	SSD
Size ([GB] or better)	100
SIZE, WEIGHT, DIMENSIONS (ALSO SEE PAGE 29)	
Weight appliance [lbs] / [kg]	3.1 / 1.4
Appliance size: width x depth x height [in]	2.67 x 5.9 x 5.11
Appliance size: width x depth x height [mm]	68 x 150 x 130
Weight carton with appliance [lbs] / [kg]	4.8 / 2.33
Carton size: width x depth x height [in]	10 x 10 x 12
Carton size: width x depth x height [mm]	254 x 254 x 305
Form factor	Compact, DIN rail mount
HARDWARE	
Display	-
Cooling	Fanless
ENVIRONMENTAL	
Noise emission [db/A]	n/a
Operating temperature [°F] / [°C]	-40 to +167 / -40 to +75
Storage temperature [°F] / [°C]	-40 to +185 / -40 to +85
Operating humidity (non-condensing)	5% to 95%
Magnetic isolation protection	1.5KV built-in

MTBF [SYSTEM]	
MTBF [yrs.][f]	> 9
DEFAULT POWER SUPPLY	
Power supply	Single
Power supply type	Phoenix 4-pin with lock
OPTIONAL POWER SUPPLY AND EFFICIENCY	
Power supply type	Single, ext. power brick
Power type [AC/DC]	DC
Input ratings [Volts]	12-36
Max. power draw [W]	60
Max. power draw @ 24V [Amps]	2.5
Max. heat dissipation [W]	60
Operating temperature [°F] / [°C]	+32 to +104 / 0 to +40
CERTIFICATIONS AND COMPLIANCE	
CE emissions	✓
CE electrical safety	✓
FCC emissions	✓
ROHS compliant	✓
Shock and vibration resistance	IEC 60068
	IEC 60950
	IEC 61000
	ISTA 2A
Protection classification	IP20
PACKAGING CONTENT	
Appliance	✓
DIN rail mount bracket	✓
Quick start guide	✓

All performance values are measured under optimized conditions and are to be considered as „up to" values and may vary depending on system configuration and infrastructure:

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USB modem for enhanced connectivity

	MODEM M40B
Region	EMEA / APAC
Supported carriers	Global (some network carriers might request individual certifications)
PERFORMANCE	
Download / Upload	up to 1.2 Gbps / up to 150 Mbps
SUPPORTED FREQUENCIES AND DATA RATES	
RF bands	LTE FDD: B1, B3, B25(B2), B66(B4), B26(B5/B18/B19), B7, B8, B12(B17), B13, B14(FirstNet), B20, B28, B29, B30, B32, B71
	LTE TDD: B38, B39, B40, B41, B42, B43, B46, B48 (CBRS/OnGo)
	3G B1, B2, B4, B5(B19), B8, B9
Data rates	Data only module
	LTE Cat. 18 3GPP Rel. 12 - Up to 1.2 Gbps DL w/4x4 MIMO +3 CA
	HSDPA Cat 24, HSUPA Cat 8
GSM	850/900/1800/1900 MHz
ENVIRONMENTAL DATA, SIZE, AND CERTIFICATIONS	
Operating temperature [°F] / [°C]	14 to 140　　　/ -10 to +60
Size: width x depth x height [in] / [mm]	3.03 x 2.15 x 0.82　　/ 77 x 54.5 x 20.8
Net weight [g]	150
Approvals	FCC/IC, PTCRB 9 (North America)
	FCC Part 96 CBRS (USA)
	CE, GCF (Europe)
	AU IC-Tick (Australia)
ELECTRICAL DATA	
Power supply DC	5 VDC via USB Interface
SIM interface	3VDC 6 pin
USB Interface	Micro USB 2.0

FSC20

FSC21

No scale illustration.
All dimensions in mm.

FSC24
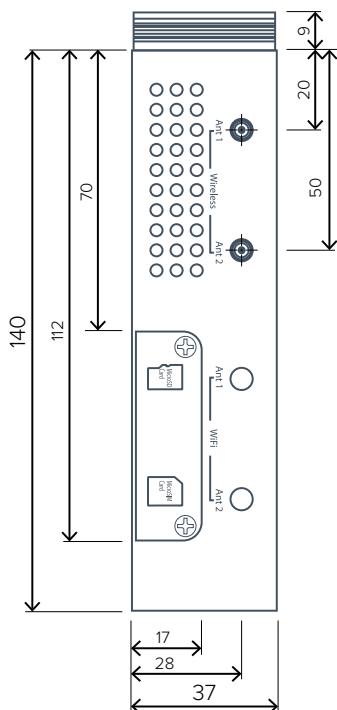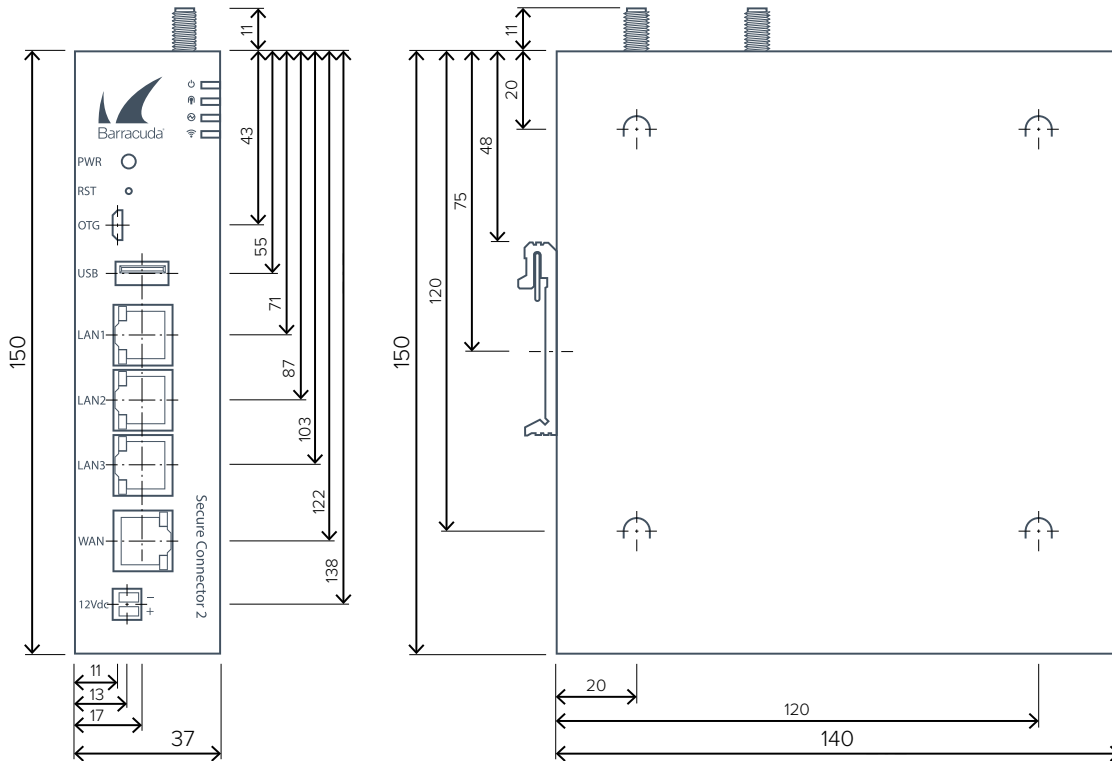
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All dimensions in mm.

FSC25
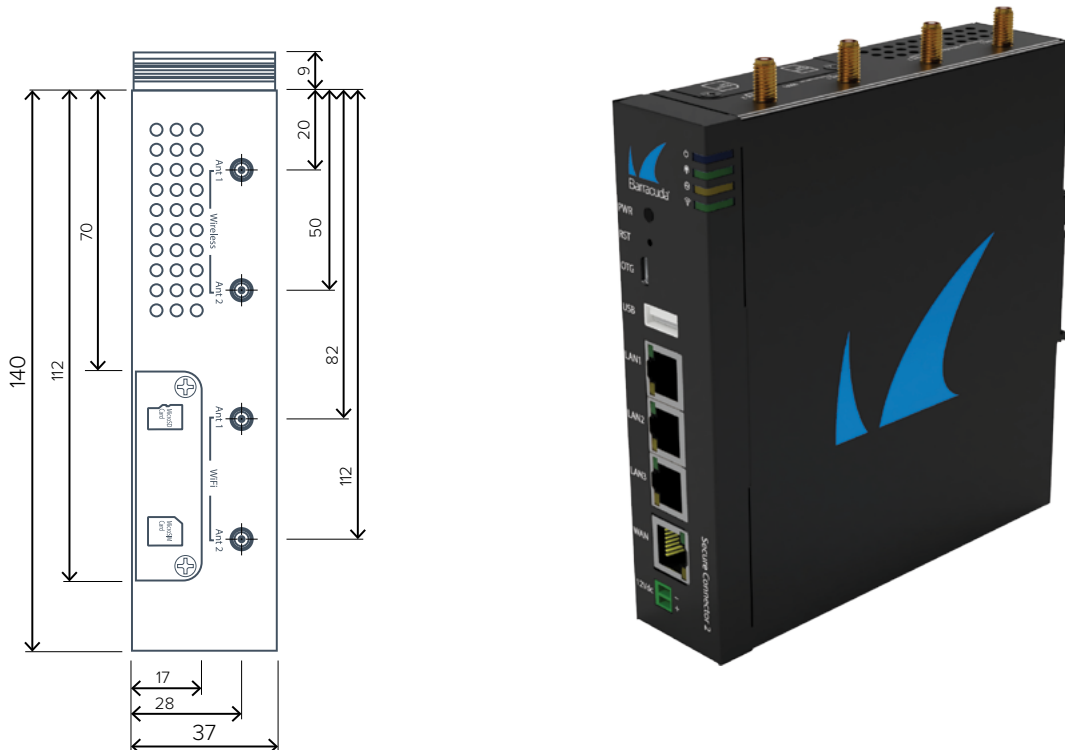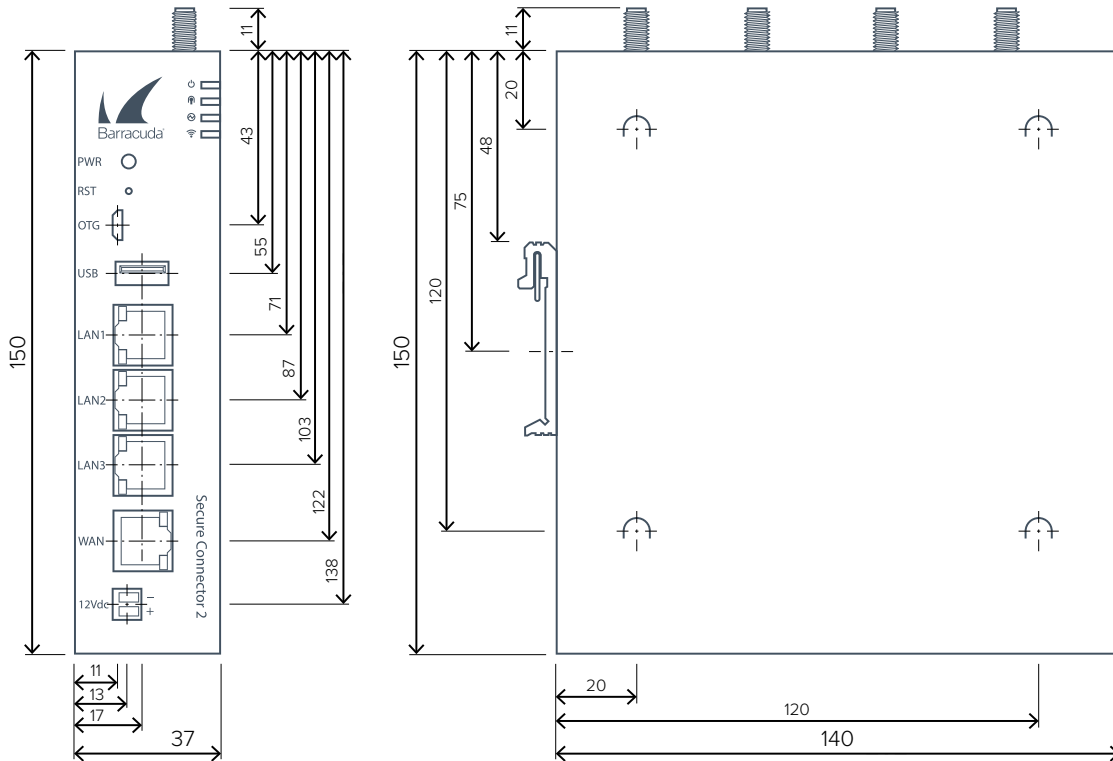
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All dimensions in mm.

FSC30
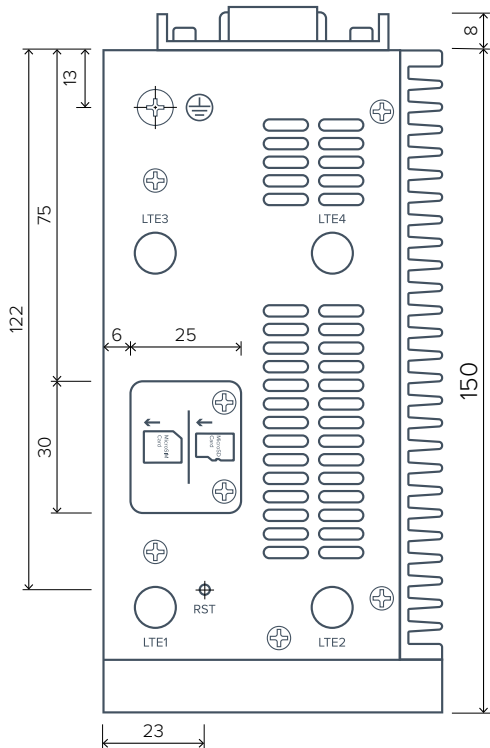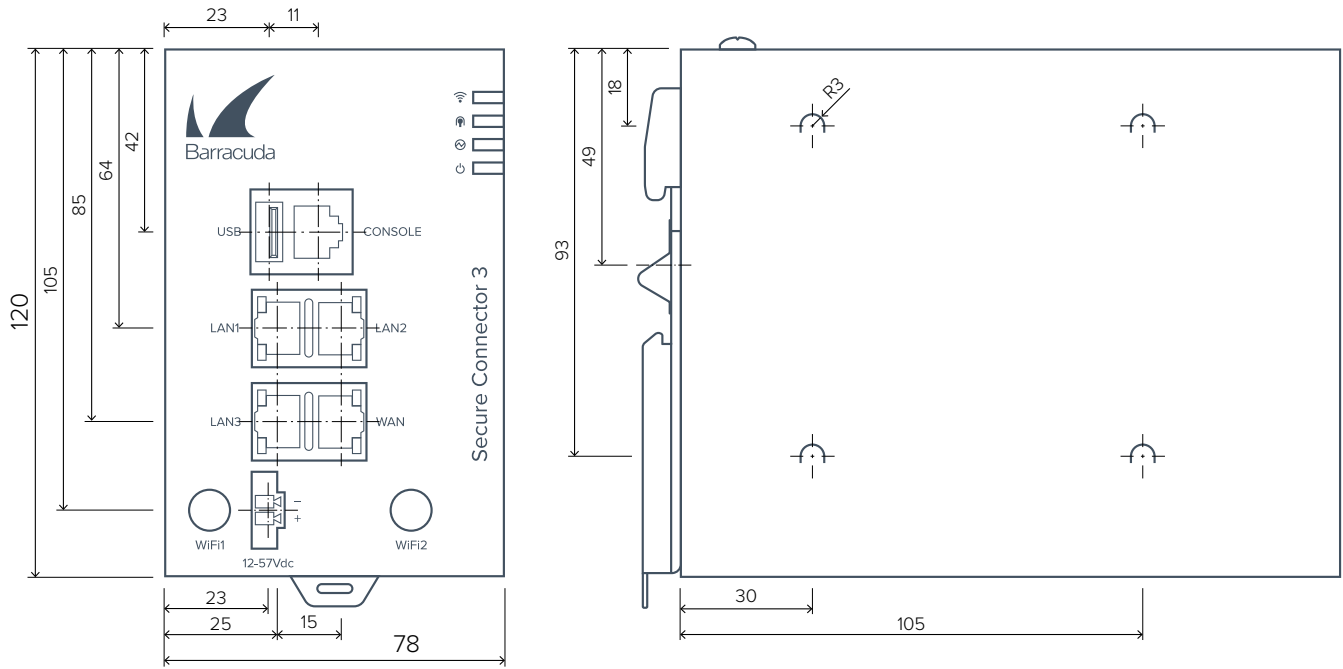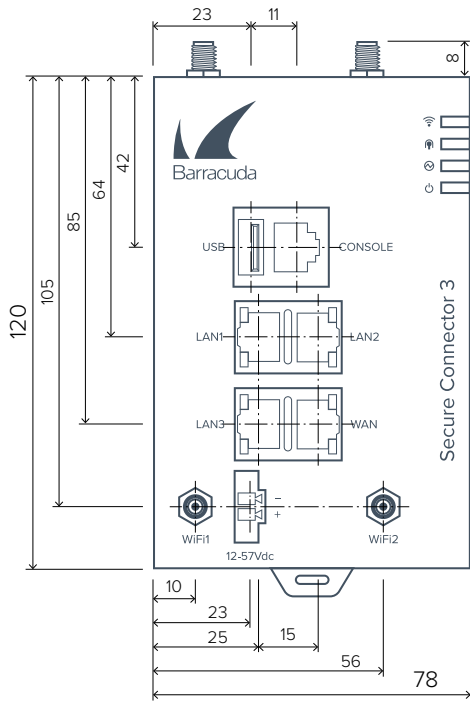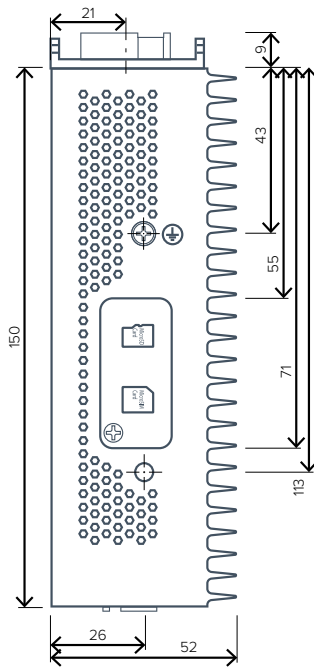

No scale illustration.
All dimensions in mm.

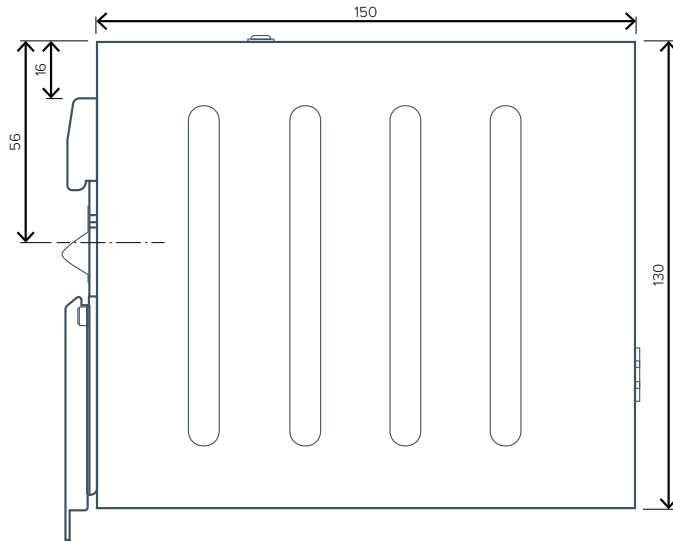## FSC31
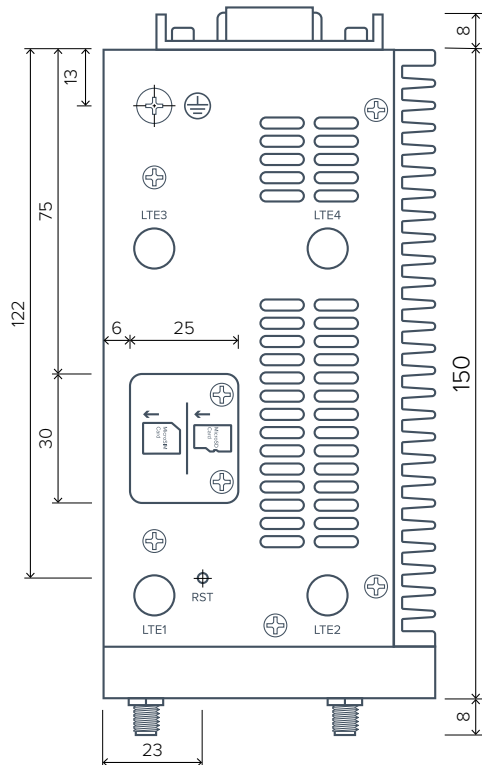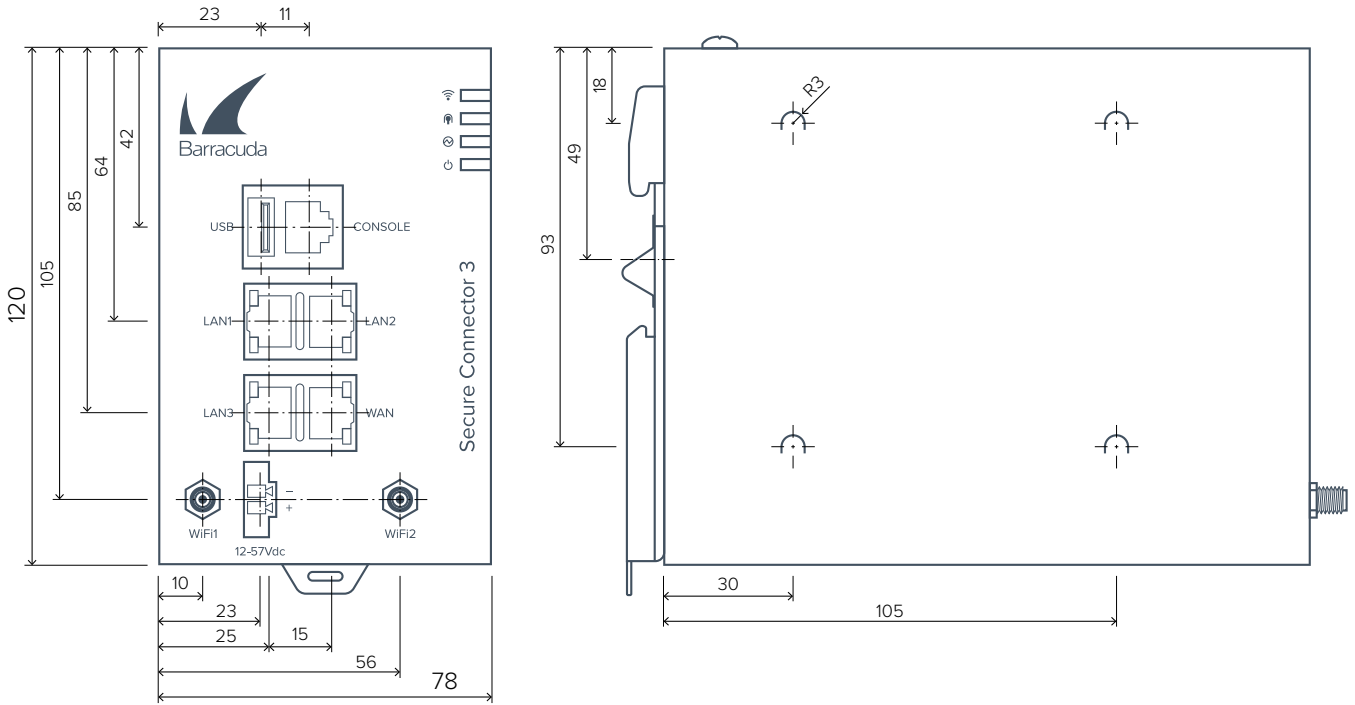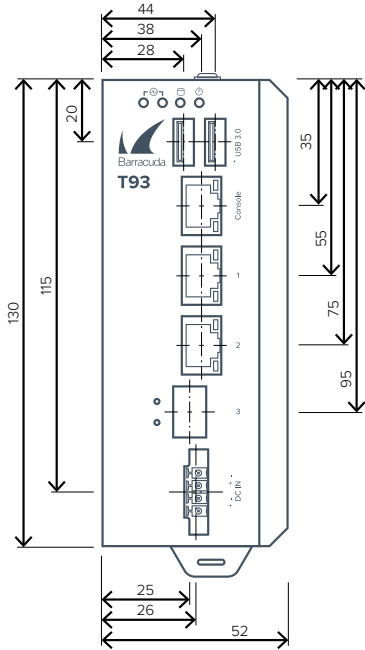

No scale illustration.
All dimensions in mm.

FSC34
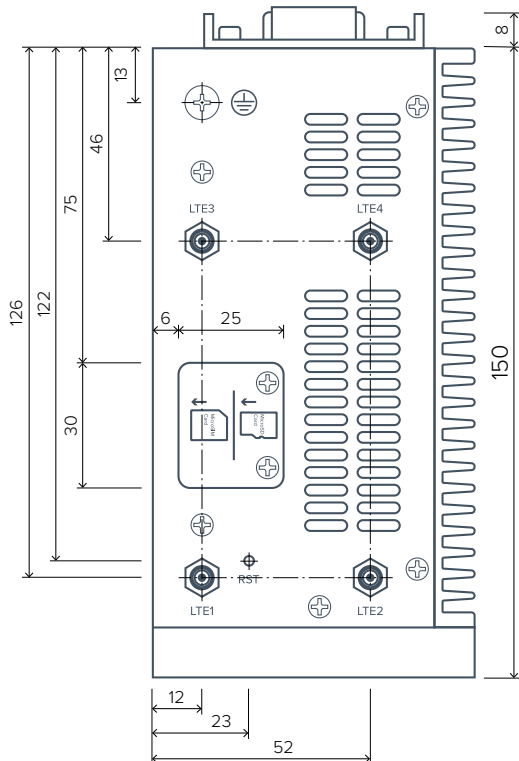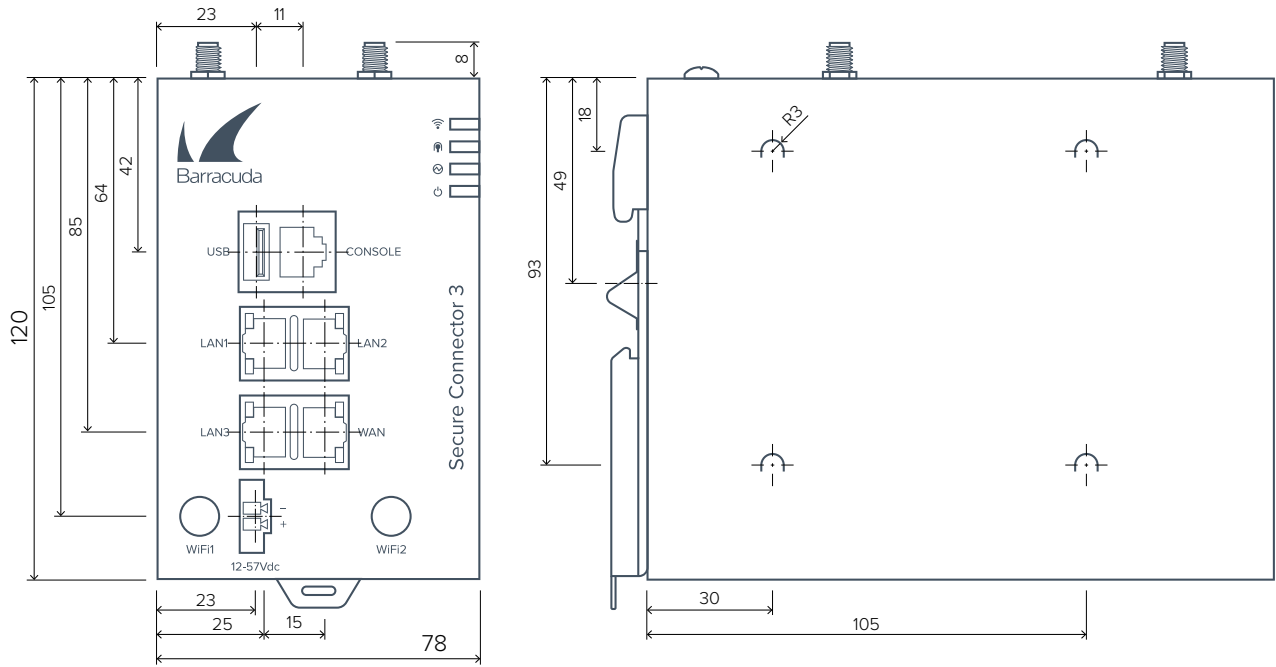
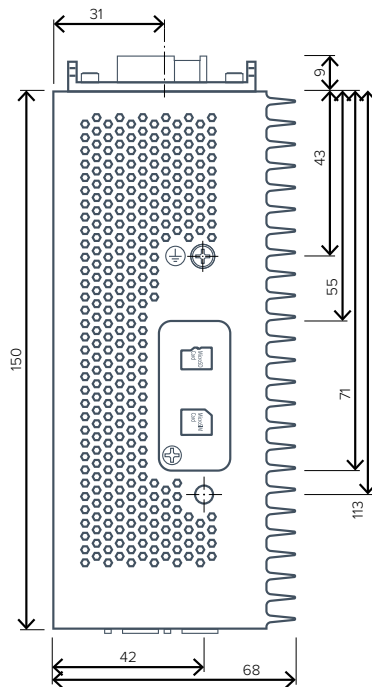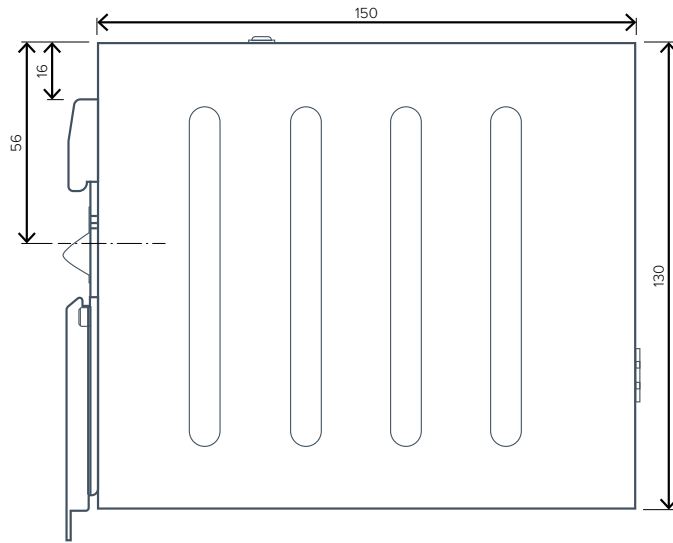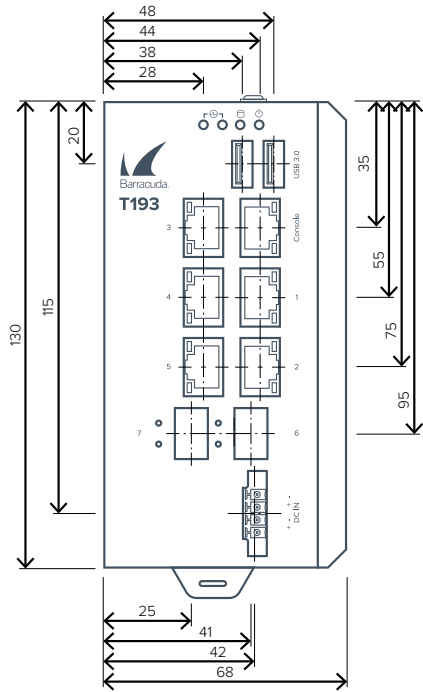No scale illustration.
All dimensions in mm.

FSC35
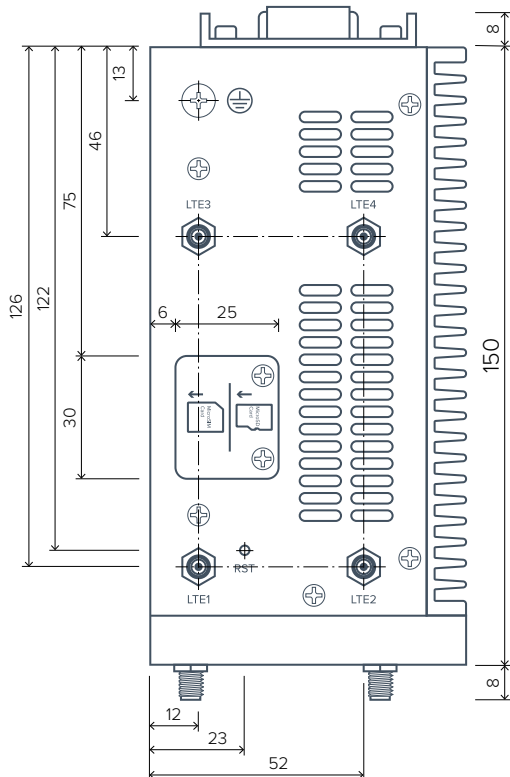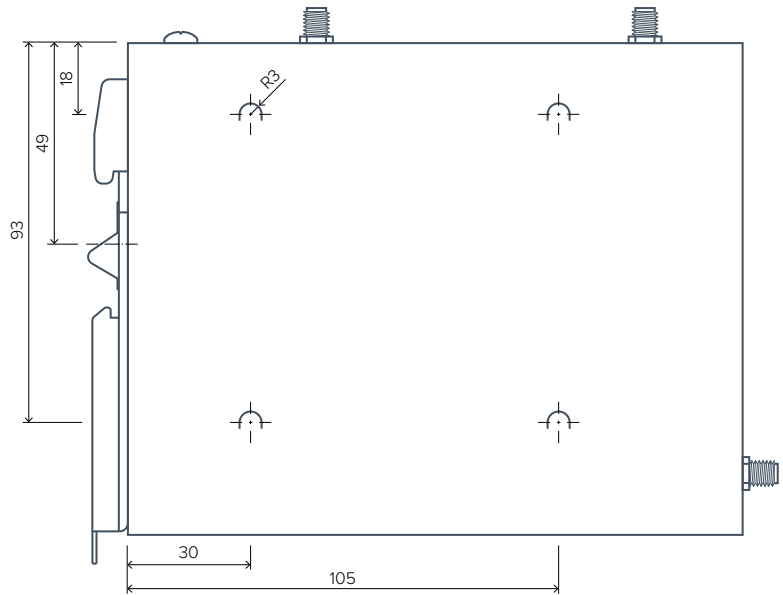
No scale illustration.
All dimensions in mm.

T93A

T193A

No scale illustration.
All dimensions in mm.

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Document version 1.1
Applies for firmware version 9.0.x

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