

# Service Gateway Tera (iiii

### **Delivering the Digital Experience**

Allot Service Gateway Tera is a high-performance DPI-based platform built to power the deployment of Digital Lifestyle Services in fixed and mobile data networks that are on the path to software-defined networking (SDN) and cloud-based network services (NFV). It provides a unified framework for both physical and virtual service deployment across any access network, serving as a single point of integration for Allot bundled services such as real-time traffic management, video optimization, policy enforcement, service security and application-based charging, as well as value-added services (VAS) from other leading vendors.



## Highlights

- Engineered to operate in SDN environments
- Supports real-time traffic steering to NFV cloud services
- Delivers extreme performance: up to 500 Gbps in a single chassis; up to 4 Tbps in a chassis cluster
- Provides seamless, pay-as-you-grow scalability
- Designed to host and orchestrate value-added services in or out of the chassis
- Built to collect very large volumes of granular analytics data from the network
- Leverages DPI to enrich Policy and Charging functions



#### Features

#### **Extreme Performance**

Allot Service Gateway Tera (SG-Tera) provides the extreme performance and rich functionality that is needed to deliver digital lifestyle services in fixed, mobile and converged data networks operating in traditional, software-defined, and virtualized network environments. With 100 Gigabit Ethernet connectivity and terabits-per-second of throughput, this carriergrade platform helps service providers satisfy the ever-growing demand for Internet services and bandwidth.

#### Future-Proof Scalability

Modular platform architecture is designed for the tera era. Allot SG-Tera lets you start small and expand up (connectivity, throughput) and out (capacity) seamlessly. Pay-as-you-grow deployment reduces initial capital outlay and allows operators to respond quickly to market changes.

- Capacity: supports up to 15 million active subscribers (concurrently attached and active), and 360 million concurrent IP flows
- Connectivity: up to 8 x 100GE ports or 96 x 10GE ports
- Throughput: up to 500 Gbps in a single platform
- Clustering: supports up to 8 Allot SG-Tera platforms in a seamless cluster configuration, providing aggregate throughput of up to 4 Tbps
- Management: centrally configured and managed by Allot NetXplorer Management system, including full integration with Allot Subscriber Management Platform (SMP)

#### Asymmetric Traffic Handling

Allot SG-Tera maintains accurate Layer-7 identification of applications when asymmetric upstream and/or downstream IP flows are processed by two or more platforms.

#### **High Availability**

The platform is compliant with NEBS Level 3 and provides 1+1 redundancy at the system level, and N+1 blade-level redundancy mechanisms to ensure service continuity with no downtime due to component failure.

#### **Open, Carrier-Grade Architecture**

Engineered to AdvancedTCA<sup>®</sup> standards for off-the-shelf, carriergrade hardware, while standard software interfaces, protocols, and APIs facilitate rapid integration of third-party value-added services.

#### Intelligent PCEF/TDF

Compliance with 3GPP standards enables Allot SG-Tera to provide intelligent Traffic Detection Function (TDF) and Policy and Charging Enforcement Function (PCEF) in 3G/4G mobile data networks. This allows operators to leverage superior traffic identification and classification to enrich the policy decisions of PCRF elements, and to enhance the charging capabilities of online and offline charging systems (OCS, OFCS).

#### **SDN / NFV Compatibility**

Allot SG-Tera provides essential, real-time data-plane functionality that connects and interfaces with network and control-plane elements in SDN environments. The platform supports proprietary and standard OpenFlow implementations and provides extended functionality to support Allot's real-time Layer-7 traffic management, policy control, application charging, security, and service orchestration in software-defined networks.

In NFV environments, Allot SG-Tera steers only the relevant traffic to virtualized cloud services, which may be deployed in the Allot SG-Tera platform or externally. The platform dynamically balances the traffic load from multiple NFV service elements in real-time. Traffic steering may be based on application, subscriber, device, and/or topology ID such as cell or CMTS.

#### **Single Point of VAS Integration**

Allot SG-Tera offers a growing portfolio of value-added services hosted in the platform as well as real-time traffic steering to external and third-party VAS systems. As a single point of integration for these services, Allot SG-Tera facilitates fast and cost-effective roll-out and accelerated ROI. Fully integrated VAS currently include Allot WebSafe (URL filtering), Allot WebSafe Personal (parental control, anti-malware), Allot ServiceProtector (anti-DDoS, anti-bot), and Allot VideoClass (video optimization).

#### **High-Resolution Data Records**

From its vantage point in the network, Allot SG-Tera monitors and collects a rich variety of high-resolution usage data, including real-time transactions per user, per application, per device, per video session, per VoIP and Instant Messaging session, per Web session, and more. These flexible data records may be exported in standard formats to business intelligence systems and other operator systems for further manipulation and analysis. Frequency and triggers for data record export are configurable parameters, giving operators ready access to usage data that is critical to their business.

### Specifications

### Allot Service Gateway Tera Platform

	Allot SG-Tera
Platform Configuration	
Chassis	14-slot, AdvancedTCA (ATCA)
Maximum Available Slots	14
Core Controller (CC) Blade	1 to 12
Switch and Flow Balancer (SFB) Blade	1 to 4
Rear Input/Output (RIO) Blade	1 to 4
Service Blades	Up to 10
Capacity	
Throughput per Platform	500 Gbps
Throughput per Cluster	4 Tbps using 8 platforms
Number of Flows	360 Million (30 Million per CC)
Number of Active Subscribers	15,000,000
Number of Lines / Pipes / Virtual	512 / 4,800,000 / 24,000,000
Channels	(400,000 / 2,000,000 per CC)
Interface Types	
Ethernet Interfaces	96 x 10 Gigabit Ethernet
Management	8 x 100 Gigabit Ethernet 2 x 1 Gigabit Ethernet or
Wanagement	2 x 10 Gigabit Ethernet
	(with 1:1 high availability)
Console	Serial, RJ45 Connector
Availability	
Bypass Hardware	Up to 4 independent, passive
	bypass units, supporting either 8
	fiber-optic ports (4 links) or 16 fiber- optic ports (8 links) or 24 fiber-optic
	ports (12 links) per unit
High Availability	1+1 system-level redundancy
	N+1 redundancy of Core Controller
	blades
Management	Active-Standby HA on management ports
System	Redundancy for PEMs and fans
-	
Dimensions	
Dimensions Chassis Size	Standard 14U by 19" rack mount.
	Standard 14U by 19" rack mount, height 619.5mm (24.3"), width
	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm
Chassis Size	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs
Chassis Size Chassis Weight	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb)
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Chassis Size Chassis Weight AC Power Supply Size	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb)
Chassis Size Chassis Weight	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH
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Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports)	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm,
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb)
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports)	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb)
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Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb)
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb)
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power Input DC	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb)
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Number of DC PEMs	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) -48V DC (-40V to -60V DC), 2 x 190A Max 2 1+1 200 – 240VAC, 50/60Hz,
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power Input DC Number of DC PEMs DC PEM Redundancy Input AC	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) -48V DC (-40V to -60V DC), 2 x 190A Max 2 1+1 200 – 240VAC, 50/60Hz, 4 x 12A/240V Max, 4 x 15A/100V Max
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power Input DC Number of DC PEMs DC PEM Redundancy	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) -48V DC (-40V to -60V DC), 2 x 190A Max 2 1+1 200 - 240VAC, 50/60Hz, 4 x 12A/240V Max, 4 x 15A/100V Max 180 < Vin ≤ 265Vac, 4 x 2496W
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power Input DC Number of DC PEMs DC PEM Redundancy Input AC	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) -48V DC (-40V to -60V DC), 2 x 190A Max 2 1+1 200 - 240VAC, 50/60Hz, 4 x 12A/240V Max, 4 x 15A/100V Max 180 < Vin ≤ 265Vac, 4 x 2496W 170 ≤ Vin ≤ 180Vac, 4 x 2400W
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power Input DC Number of DC PEMs DC PEM Redundancy Input AC	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) -48V DC (-40V to -60V DC), 2 x 190A Max 2 1+1 200 – 240VAC, 50/60Hz, 4 x 12A/240V Max, 4 x 15A/100V Max 180 < Vin ≤ 265Vac, 4 x 2496W 170 ≤ Vin ≤ 180Vac, 4 x 2400W 100 ≤ Vin ≤ 132Vac, 4 x 1500W
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power Input DC Number of DC PEMs DC PEM Redundancy Input AC	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) -48V DC (-40V to -60V DC), 2 x 190A Max 2 1+1 200 - 240VAC, 50/60Hz, 4 x 12A/240V Max, 4 x 15A/100V Max 180 < Vin ≤ 265Vac, 4 x 2496W 170 ≤ Vin ≤ 180Vac, 4 x 2400W
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Power Input DC Number of DC PEMs DC PEM Redundancy Input AC	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x440.7mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x40
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit DC Input DC Number of DC PEMs DC PEM Redundancy Input AC AC Rated Output Power per PSU	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) external 10 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) external 10 100 store 1000000000000000000000000000000000000
Chassis Size Chassis Weight AC Power Supply Size Multi-Port Bypass Unit (8 ports) HD-16 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit HD-24 Multi-Port Bypass Unit Number of DC PEMs DC PEM Redundancy Input AC AC Rated Output Power per PSU	height 619.5mm (24.3"), width 444mm (17.48"), depth 433.04mm (17.04"), with PEMs Up to 87.6kg (193lb) External 1U by 19" rack mount, 445 x 43.6 x 401mm, 13.4kg (29.5lb) External 1U 19" rack mount, LxWxH 439.5x130x43.6mm, 2.4kg (5.3lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) External 1U 19" rack mount LxWxH 439.5x145x43.6mm, 3kg (6.6lb) $= xternal 1U 19" rack mount LxWxH439.5x145x43.6mm, 3kg (6.6lb)= xternal 1U 19" rack mount LxWxH439.5x145x43.6mm, 3kg (6.6lb)= xternal 1U 19" rack mount LxWxH439.5x145x43.6mm, 3kg (6.6lb)= xternal 1U 19" rack mount LxWxH100 - 240VAC, 50/60Hz,4 x 12A/240V Max, 4 x 15A/100V Max180 < Vin \leq 265Vac, 4 x 2496W170 \leq Vin \leq 180Vac, 4 x 2400W100 \leq Vin \leq 132Vac, 4 x 1500W85Vac \leq Vin < 100Vac W Linear de-rating 1.3% per V4$

	Allot SG-Tera
Environment	
Operating Temperature	5 to 40°C (41 to 104°F)
Operating Temperature, short term	-5 to 55°C (23 to 131°F)
Storage Temperature	-40 to 70°C (-40 to 158°F)
Storage Relative Humidity	95%, non-condensing at tempera- tures of 23 to 40°C (73 to 104°F)
Operating Humidity, nominal	5 to 85% RH
Operating Humidity, short term	5 to 90% RH
Operating Altitude	-60 to 1800m (-197 to 5906 ft) at 40°C Max 1801 to 4000m (5909 to 13123 ft) at 30°C
Standards	
NEBS	Designed to meet NEBS Level 3
	Telecordia GR-1089-CORE, GR- 63-CORE
CE Conformity	2004/108/EC Electromagnetic Compatibility Directive
	2006/95/EC Low Voltage Equipment directive
	2011/65/EU RoHS Restriction of the use of certain hazardous substances
	2002/96/EC WEEE Union's Wasted Electrical and Electronics Equipment Directive
Safety	EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011
	EN 60825-1:2007
	EN 60825-2:2004 + A1:2007 + A2:2010
	UL 60950-1:2007 R14.10
	CAN/CSA-C22.2 No. 60950-07 + A1:2011 +A2:2014
	UL94
EMC	EN 55022:2010/AC:2011
	EN 55024:2010
	ETSI EN 300 386 V1.6.1:2012-04 for use in telecommunication canters
	EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6
	FCC CFR 47 Part 15B Class A
	Industry Canada ICES-003 Issue 5; C108.8-M1983
	Australia ACMA, AS/NZS CISPR 22:2009 + A1:2010
	VCCI Class A Technical Requirements, V-3/2013.04
RoHS	EN 50581:2012
Quality System and Environment	Certified to standards ISO 9001, ISO/IEC 90003, ISO 14001, SI ISO 27001

#### Allot Service Gateway Tera Blades

#### Switch & Flow Ralancer Rlades

Switch & Flow Balancer Blades		Switch & Flow Balancer SFB-400 Blade	Switch & Flow Balancer SFB-420 Blade
Capacity	Switching Capacity	720 Gbps	720 Gbps
	Flow Balancing Capacity	160 Gbps	540 Gbps
Interface Types	Console	Serial, RJ45 Connector	Serial, RJ45 Connector
Availability	Hot Swap	Supported	Supported
	Redundancy	1+1	1+1
Dimensions and Power	Size	Standard 1-slot ATCA blade	Standard 1-slot ATCA blade
	Weight	3.44kg (7.7lb)	5kg (11lb)
	Power Dissipation (Max)	230W	250W
Standards	AdvancedTCA®	PICMG 3.0 R3.0	PICMG 3.0 R3.0

Core Controller Blade		Core Controller CC-400 Blade
Capacity	Throughput	50 Gbps
	Number of Connections/Flows	15,000,000/ 30,000,000
	Pipes / Virtual Channels	400,000 / 2,000,000
	Number of Subscribers / PDP Contexts	1,500,000
Interface Types	Console	Serial, RJ45 Connector
Availability	Hot Swap	Supported
	Redundancy	N+1
Dimensions and Power	Size	Standard 1-slot ATCA blade
	Weight	3.44kg (7.7lb)
	Power Dissipation (Max)	210W
Standards	AdvancedTCA <sup>®</sup>	PICMG 3.0 R3.0

Rear I/O Blades	Rear Input/Output RIO-8C Blade	Rear Input/Output RIO-24C Blade	Rear Input/Output RIO-102CF Blade	
Interface Types				
Ethernet Interfaces (Max per blade)	8 x 10GBASE-SR/LR/ER/ZR or 8 x 1000BASE-T/SX/LX/ZX and 12 x 10GBASE-SR/LR	24 x 10GBASE-SR/LR	2 x 100GBASE-SR4/LR4 4 x 10GBASE-SR/LR	
Management	2 x 10GBASE-SR/LR or 2 x 1000BASE-T/SX/LX	2 x 10GBASE-SR/LR or 2 x 1000BASE-T/SX/LX	2 x 10GBASE-SR/LR or 2 x 1000BASE-T/SX/LX	
Availability				
Hot Swap	Supported	Supported	Supported	
Dimensions and Power				
Size	ATCA RTM blade	ATCA RTM blade	ATCA RTM blade	
Weight	1.1kg (3.3lb)	1.42kg (3.1lb)	1.3kg (2.9lb)	
Power Dissipation (Max)	30W	40W	44W	
Standards				
AdvancedTCA®	PICMG 3.0 R3.0	PICMG 3.0 R3.0	PICMG 3.0 R3.0	
Supported SFB Blades				
Compatible with	SFB-400	SFB-420	SFB-420	

#### (i) About Allot Communications

Allot Communications Ltd. (NASDAQ, TASE: ALLT) empowers service providers to monetize and optimize their networks, enterprises to enhance productivity and consumers to enjoy an always-on digital lifestyle. Allot's advanced DPI-based broadband solutions identify and leverage network intelligence to analyze, protect, improve and monetize mobile, fixed and cloud service delivery and user experience. Allot's unique blend of innovative technology, proven know-how and collaborative approach to industry standards and partnerships enables network operators worldwide to elevate their role in the digital lifestyle ecosystem and to open the door to a wealth of new business opportunities.

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