

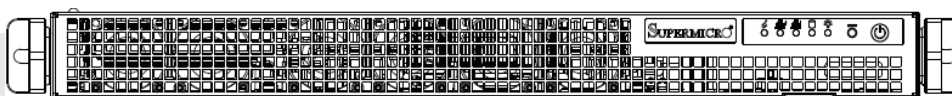
StreamGroomer 1660e

Optimized to leverage the entire Streamcore suite of network performance management applications to ensure good user experience of your business applications at data centers with link speeds up to 500Mbps

Delivering IT-as-a-Service over today's hybrid networks is a challenge and users of IT services must experience good service at all times in order to deliver expected business outcomes. Whether business-critical applications are hosted in traditional data centers or the cloud, good performance must be experienced by users wherever they are located over the available network. As business services become more complex, leveraging applications distributed across the cloud and users become more mobile, networks must easily adapt to changes in connectivity and performance requirements. Competitive pressures demand this flexibility and efficiency from IT services as agile businesses change rapidly to address shifting markets – even the slightest performance degradation is unacceptable.

Streamcore's Wide Area Network (WAN) performance management solutions make it easy to:

- **Monitor any application, communication or public/private cloud service on the network**
- **Inspect, classify, measure, analyze and report on service performance**
- **Troubleshoot performance slowdowns in real-time or back-in-time**
- **Control, shape and accelerate traffic to maximize the quality of user experience**



Streamcore StreamGroomer (SG) network appliances monitor, supervise, control and accelerate application flows across the WAN. Deep Packet Inspection (DPI) and a library of well-known application protocols classify application flows for measurement, control and acceleration – both reporting and actively maximizing network performance. Multiple techniques are leveraged by StreamGroomers to maximize the QoS of interactive applications and multimedia services as well as shape application bandwidth and reduce transit time of information transfers. All-together, StreamGroomers ensure good user performance experience of all applications wherever the user may be in the network, regardless of other network traffic conditions.

StreamGroomers integrate transparently into simple and complex networks: Internet, MPLS, 802.1Q trunk, multi-link, load-sharing, redundant, symmetrical/asymmetrical bandwidth and hybrid combinations. Application flows are monitored and optimized over multiple network paths with other StreamGroomers, acceleration services in the cloud, mobile acceleration clients and even sites without StreamGroomers to ensure good user perception of performance in all hybrid demand conditions. StreamGroomers are positioned between the LAN and WAN access firewall/router (inline

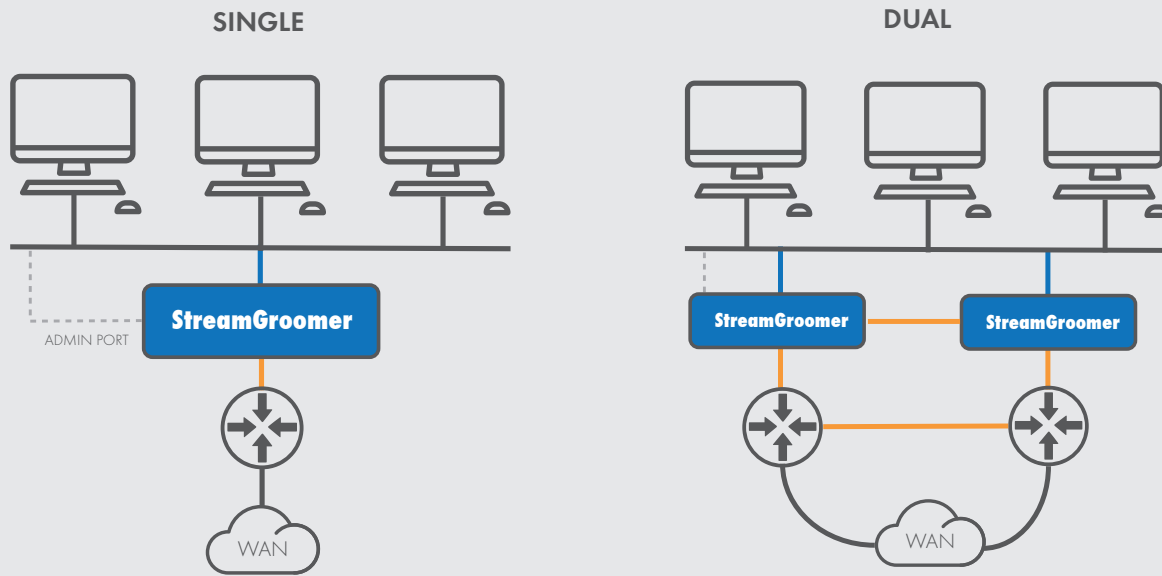
or on a tap / mirrored port) with fail-safe bypass. For high-availability architectures, a pair of StreamGroomers in dual [parallel] or tandem [series] mode can be deployed to provide continuous service under any circumstance. Deployment is easily automated using a USB key for initialization and centralized operations management via an out-of-band administration network port.

Advantages:

- **Actively assures user experience**
- **Accelerated network performance**
- **Application-aware analytics**
- **Hybrid, multi-link networks**
- **High availability solutions**
- **Centralized management**
- **Automated configuration**
- **Expandable for future demands**

StreamGroomer Features

- Deep Packet Inspection (DPI) traffic classification
- Application-aware flow monitoring and management
- Wide Area Network (WAN) acceleration
- User session-aware Quality of Service (QoS) control
- Seamless integration inline between the LAN and WAN
- Supports complex, hybrid network architectures
- 802.1Q trunk VLAN, redundant access with asymmetric traffic
- Cooperation with carrier QoS: full transparency or DSCP field
- Integrated bypass
- Out-of-band administration
- Initial configuration with a USB key or console port
- SNMP agent (MIB II, MIB Bridge and MIB Streamcore)
- Expandable to meet future demands



Specifications

Performance

- Line Speed - Up to 500 Mbps¹
- Number of peers - 500²
- Max. number of TCP Sessions - 200,000
- Max. bidirectional rules - 20,000

Interfaces

Ethernet 10/100/1000Base-T

- 1x ~2 to 4 x LAN/WAN copper or optical with integrated bypass
- 1x out-of-band administration
- 1x EXT for Dual Mode

USB

- 2x USB 2.0

Asynchronous serial

- 1x console, RS-232C, RJ-45

Network Expansion

- 2x PCIe slot

Storage Expansion

- 1x 2.5" bay

Size and Environment

- Height - 4.4 cm 1U
- Width - 43.1 cm 19" rack mount
- Depth - 42.9cm 16.9"
- Weight 9.9kg 22 lbs
- Temperature - 5~35°C; 41~95°F operating
-40~60°C; -40~140°F non-operating
- Non-condensing Humidity - 8~90% operating
5~95% non-operating

Power

- 100-240 VAC, 50/60 Hz, 480 W

MBTF

- > 45,000 hours

Compliance

- CE Class B, EN 60950/IEC 60950, CB,FCC Class B, UL, CUL, TUV, RoHS, CCC

¹Maximum throughput depends on configured services along with the number of rules and filters defined on the StreamGroomer, actual traffic patterns and number of new sessions.

²The maximum number of peers is constrained by cache size and throughput requirements. Contact your technical sales representative to determine fit to your detailed environment parameters.