



- PolyCaster NG-1
- PolyCaster NG-2
- PolyCaster NG-3
- PolyCaster NG-10
- PolyCaster NG-20
- PolyCaster NG
Software-Only



The PolyCaster NG series by Motama offers optimized streaming servers for high-performance HTTP Live Streaming (HLS) to client devices. PolyCaster is available as turn-key 19-inch rack mountable server appliance or as software-only version. PolyCaster supports HLS with standard-compliant audio/video formats (AVC/H.264 and AAC) but also non-standard-compliant combinations of audio/video formats (such as MPEG-2 Video and MPEG audio, or AVC/H.264 with Dolby Digital audio as received from DVB). PolyCaster allows for securing live streams with HLS-AES encryption including key rotation. PolyCaster offers additional features, such as an IP filter (black-list/white-list) and a geographical IP filter for regional blocking of streams, an account filter (user name and password), and a token-based authentication mechanism to secure access to streams.

Application areas

- Streaming server for live content
- Internet / Over-The-Top (OTT) streaming
- Optimized for high-performance HTTP Live Streaming (HLS)
- HLS-AES encryption including key rotation
- Adaptive Bitrate Streaming (ABR)

Input protocols

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|---|---|
| <ul style="list-style-type: none"> ■ MPEG-TS | <ul style="list-style-type: none"> ■ Single Program Transport Stream (SPTS) ■ UDP unicast or multicast at multiple bitrates ■ HLS standard-compliant audio/video formats ■ Non-standard-compliant audio/video formats |
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Output protocols

- Apple® HTTP Live Streaming (HLS)

Output devices

- iPhone®, iPod®, iPad® (iOS 3.0 or later)
 - Android devices (with HLS support)
 - Set-top boxes (with HLS support)
 - QuickTime® Player (10.0 or later)
 - Safari® (4.0 or later on Mac OS X version 10.6)
 - Other HLS-compatible clients, such as HLS compatible browser players for Flash Player
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- Network and Streaming
 - All models: Management
 - 1x 1000 BaseT Gigabit Ethernet
 - Up to 500 Mbit input streams
 - PolyCaster NG-1
 - 1x 1000 BaseT Gigabit Ethernet Streaming
 - Up to 900 Mbit output streams / 1000 users
 - PolyCaster NG-2
 - 2x 1000 BaseT Gigabit Ethernet Streaming
 - Up to 1800 Mbit output streams / 2000 users
 - PolyCaster NG-3
 - 3x 1000 BaseT Gigabit Ethernet Streaming
 - Up to 2700 Mbit output streams / 3000 users
 - PolyCaster NG-10
 - 1x 10 Gigabit Ethernet Streaming
 - Up to 8000 Mbit output streams / 8000 users
 - Optical connector: SFP+ 10BASE-SR short wave lasers with LC type
 - PolyCaster NG-20
 - 2x 10 Gigabit Ethernet Streaming
 - Up to 16000 Mbit output streams / 16000 users
 - Optical connector: SFP+ 10BASE-SR short wave lasers with LC type
 - PolyCaster Software-Only (Linux)
 - Unlimited number of network interfaces, streams and users
 - Performance depends on customer's hardware
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- Administration
 - Linux system
 - Web interface (http/https), ssh
 - Free Software Developer Kit (SDK) for XML-RPC and PHP
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- Authentication and security features for streaming
 - HLS-AES encryption including key rotation
 - IP filter (black/white-list)
 - Geographical filter (black/white-list)
 - Account filter (user name/password)
 - Token-based authentication mechanism
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- Hardware
 - 1 U, 19" rack mountable
 - 1x SSD (Hot swap carriers)
 - Option: Redundant disk array (RAID1, 2x SSD)
 - VGA port, keyboard port, mouse port for KVM
 - Height x Width x Depth
 - 43 mm (1.7") x 426 mm (16.8") x 495 mm (19.5")
 - Voltage: 100V – 240V AC, 50-60 Hz
 - Weight: 9 kg
 - Power consumption:
 - < 6 W (standby), 40 W (idle) to 120 W (loaded)
 - Option: Redundant power supply
 - High-quality server appliance assembled in Germany
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This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)
 This product includes cryptographic software written by Eric Young (ey@cryptsoft.com)

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