The Motorola CherryPicker Application Platform (CAP) is an advanced, IP-centric architecture designed to provide the power, scalability, and reliability required to build high-density digital video solutions for service providers.

The CAP-1000, a new member of the product line, gives video service providers unparalleled efficiency and flexibility in managing and localizing video streams.

The CAP-1000 provides a software application for rate shaping of real-time, broadcast-quality MPEG-4/AVC and MPEG-2 SD and HD streams. It enables additional applications, such as grooming, dejittering, and seamless localized ad insertion, and has the performance needed to support mission-critical initiatives like Switched Digital Video, VOD Playlist Advertising, IPTV, and Bulk Encryption.

The CAP-1000 provides a highly-programmable device that can support evolving technical standards and emerging application needs through simple software upgrades, allowing customers to realize continuous returns on their initial capital investment.

The CAP-1000’s operations-friendly design ensures the high availability needed for high stream counts with redundant and hot-swappable power supplies, hot-swappable fan trays, with 1:1 and N:1 redundancy, and field-replaceable input/output and processing modules, all in a space- and power-saving 1RU (rack unit) enclosure.

The CAP-1000 operates in converging IP networks with carrier-class reliability, and features massive processing power to handle up to 2Gbps of aggregate video stream throughput.

To maximize flexibility, Motorola has abstracted the hardware elements of the CAP-1000 from the software layer, enabling delivery of features such as session-based encryption, digital watermarking, Forward Error Correction (FEC), motion graphics overlay, and video scaling via future software releases.
## EXTENSIVE INTEROPERABILITY

- MPEG-4/AVC and MPEG-2
- SPTS and MPTS
- ASI and Ethernet I/O
- Unicast and Multicast ARP, ICMP, IGMPv3 over UDP / IP / RTP
- QoS and VLAN tagging IEEE 802.1p, 802.1q

## AUDIO

- Dolby AC-3
- MPEG-2 Layer I and II
- AAC

## INPUT/OUTPUT PORTS

<table>
<thead>
<tr>
<th>Ethernet</th>
<th>(4) copper RJ-45 1000Base-T</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(4) optical LC SFP connectors 1000Base-SX/LX</td>
</tr>
<tr>
<td></td>
<td>Supports single-mode and multi-mode optical transceivers</td>
</tr>
<tr>
<td>DVB-ASI</td>
<td>(4) or (8) BNC connectors</td>
</tr>
<tr>
<td></td>
<td>Each port is programmable as input, primary output, or mirroring output</td>
</tr>
</tbody>
</table>

## CONTROL/CONSOLE

- Web-based GUI
- SNMP support
- GPIO with Micro-D 15-pin male connector, 2 inputs, 2 outputs
- 56 kbps V.92 modem with RJ-11 port
- 4PAC serial console maintenance port
- RJ-45 GbE debug port for initial IP configuration

## ELECTRICAL/MECHANICAL

- Form Factor: 1RU (1.75in); 19 in rack mountable 23.5" L x 17.5" W x 1.75" H (excluding rack ears and connectors)
- Weight: 31 lb
- Input Voltage: 100 to 240 VAC
- Power Consumption: 3.5 VAC, 120 V, 60 Hz; 350 W max.
- Frequency: 50 to 60 Hz
- Operating Temperature: 0 °C to +50 °C
- Cooling: Side-to-side
- Humidity: 5% to 95%, non-condensing
- Certification: UL, CB, CE, VCCI, TUV, FCC, CISPR 22 Class A, ROHS
- NEBS: Level 1-ready

## VIDEO

- MPEG-4/AVC Main and High Profile, up to Level 4 MPEG-2, M@ML, M@HL
- HD: 720p up to 1920 pixels at 60fps and 50 fps
- HD: 1080i up to 1920 pixels at 30fps and 25fps
- NTSC: 480i x 704/544/528/480/352, 29.97 fps
- PAL: 576i x 704/720/544/480/352, 25 fps

All features, functionality, and other product specifications are subject to change without notice or obligation.

---

**SPECIFICATION SHEET**
CherryPicker® Application Platform

www.motorola.com
101 Tournament Drive,
Horsham, Pennsylvania 19044 U.S.A.

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. Emmy is the trademark property of ATAS/NATAS. All other product or service names are the property of their respective owners.

©2008 Motorola, Inc. All rights reserved.