

CherryPicker ® Application Platform





## **MPEG-4 AVC Preprocessing**

Performs grooming, splicing, and processing-intensive statistical remultiplexing.

## **Exceptional Bandwidth**

Up to 2 Gbps aggregate video stream throughput in a small 1RU chassis.

### Carrier-Class Reliability

Redundant and hot swappable power supplies, hot swappable fan trays and fieldreplaceable input/output and processing modules.

## **Future-Proof**

Programmable DSP architecture and 8 times the processing power of the DM6400 combine to meet evolving technical standards and emerging application needs over time through simple software upgrades.

#### 10 Years of Innovation and Performance

Inherits over 80% of the software from the Emmy®award winning CherryPicker product line, which translates into interoperability and operational ease of use.

## Powerful, Reliable, Scalable,

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, hotswappable fan trays, with 1:1 and N:1 redundancy, and field-replaceable input/output cards 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 sessionbased encryption, digital watermarking, Forward Error Correction (FEC), motion graphics overlay, and video scaling via future software releases.



# CherryPicker® Application Platform

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		

## SEAMLESS PROGRAM SPLICING AND SWITCHING

High reliability HD and SD Digital ad insertion SCTE 35 and 30 standards

COMPREHENSIVE RE-MULTIPLEXING
PID filtering and remapping
PCR de-jittering and restamping
PAT and PMT computation band insertion
Data insertion
Advanced dynamic SI and PSI processing
Synchronization of data and video

ADVANCED PROCESSING		
CBR to VBR conversion		
VBR to CBR conversion (Rate clamped VBR)		
Bit rate conversion CBR to CBR, VBR to VBR		
SD/HD rate shaping		
Grooming and Re-Grooming		

VIDEO				
MPEG-4/AVC Main and High Profile, up to Level 4 MPEG-2, MP@				
ML, MP@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			

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

INPUT/OUTPUT PORTS			
Ethernet	(4) copper RJ-45 1000Base-T		
	(4) optical LC SFP connectors 1000Base- SX/LX		
	Supports single-mode and multi-mode optical transceivers		
DVB-ASI	(4) or (8) BNC connectors Each port is programmable as input, primary output, or mirroring output		

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 175"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		

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



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