

COMMSCOPE CAP-1000 CherryPicker

IP-ZENTRIERTE PLATTFORM FÜR GROOMING, SPLICING UND REMULTIPLEXING



Die CherryPicker Application Plattform (CAP-1000) ist ein fortschrittlicher, IP-zentrierter Multiplexer, entwickelt um Video-Service-Providern hohe Effizienz und Flexibilität für das Organisieren von Video-Streams zu ermöglichen und das mit voller Redundanz. Der CAP-1000 ist eine programmierbare Plattform, die sich durch Software-Updates einfach an neue technische Standards anpassen lässt ohne in neue Hardware investieren zu müssen.

Der CAP-1000 besitzt 3 grundlegende Funktionen: Grooming, Rate-Shaping und Digital Program Insertion (DPI) sowohl für MPEG-2 als auch für MPEG-4 Streams. Zusätzliche Funktionen beinhalten Programm- und Multiplex-Redundanz, Time Stamping (Dejitter), Programm und System Information Protocol-Erstellung (PSIP), Slate Insertion, SCTE 18 Emergency Alert Signaling (EAS) Switching, Commercial Advertisement Loudness Mitigation (CALM) Audio Leveling, Basic Interoperable Scrambling System (BISS) Encryption/Decryption, und Advanced MUX 3.0 Enhanced Binary Interchange Format (EBIF) Verarbeitung und Filterung.

SPEZIFIKATIONEN

EXTENSIVE INTEROPERABILITY

MPEG-2 and MPEG-4
 MPTS and SPTS
 Ethernet I/O (standard) and ASI (optional)
 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 SD and HD Digital Program Insertion
 SCTE 35 and 30 standards

COMPREHENSIVE RE-MULTIPLEXING

Synchronization of video, audio, and data
 PID filtering and remapping
 PCR de-jittering and restamping
 PAT and PMT creation and management
 Data PID insertion
 Advanced dynamic SI and PSI processing

ADVANCED STREAM PROCESSING

CBR to VBR conversion
 VBR to CBR conversion (rate-clamped VBR)
 Bitrate conversion CBR to CBR, VBR to VBR
 SD/HD rate shaping
 Grooming , regrooming, time-based switching

FLEXIBLE MANAGEMENT /CONTROL AND MONITORING

Two RJ-45 10/100 Mbps management ports Bonded pair with single gateway and IP
Management access through all GbE ports (and ability to restrict management functions on all ports for security)
4PAC serial console maintenance port
Full Java-based GUI
RADIUS
Extensive SNMP traps and status
XML configuration files for both input and output
Local and remote logging capability

VIDEO

MPEG-2 Main Profile	
MPEG-4/AVC Main and High Profile, up to Level 4 MPEG-2, MP@ ML, MP@HL	
HD	720p up to 1920 pixels at 60 fps and 50 fps
HD	1080i up to 1920 pixels at 30 fps and 25 fps
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 and AAC-HE

INPUT/OUTPUT PORTS

Ethernet Ports 1-4	XFP 10 G ports. Can accept optical SFP 1 GbE transceivers. Note: Ports 1-4 do not support SFP 1 GbE copper transceivers.
Ethernet Ports 5-8	SFP 1 GbE ports (SM/MM optical SFP and copper SFP)
Ethernet Ports 9-10	RJ-45 1 GbE
All Ethernet ports active	All 10 Ethernet ports listed are available and active
DVB-ASI	Optional. Eight port maximum. Two cards, each card has four ASI ports. Each port can be configured as input or output.

ELECTRICAL/MECHANICAL

Dimensions (H x W x L) and rack unit (RU)	1.75 x 17.5 x 23.5 in. (4.45 x 44.45 x 59.69 cm), 1RU 1.75-in (4.45 cm); mounts in 19-in (48.26 cm) rack (excluding rack ears and connectors)
Weight	31 lbs
Input Voltage	100 to 240 VAC
Power Consumption	3.5 VAC, 120 V, 60 Hz; 275W Avg.
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

DEPLOYMENT SERVICES

BESTELLNUMMER	BESCHREIBUNG
476666-087-00	CherryPicker CAP-1000 Onsite Configuration
476666-153-00	CherryPicker CAP-1000 Remote Configuration