ARRIS CherryPicker DM 6400

DIGITAL APPLICATION PLATFORM

The Arris DM 6400 CherryPicker delivers unparalleled quality and reliability for networking, distributing and processing both standarddefinition (SD) and high-definition (HD) services. It offers a wide array of digital video applications, including grooming of custom channel lineups, rate shaping and statistical remultiplexing, localized digital ad insertion, and Graphic overlay and SqueezeBack.

The DM 6400 is a compact (1 RU) chassis with five slots which can be equipped with either 4 port ASI or GbE modules. A powerful new DSP card (optional) now supports Motion and Static Graphic Overlays and SqueezeBack using internal and external sources via SDI (Serial Digital Interface) Key and Fill Video.

- Seamless program splicing and switching
- Variable number of programs per output
- Configurable minimum and maximum bit rates per program
- Configurable relative recoding priorities between programs
- Digital ad insertion (optional)
- PID filtering and remapping
- PCR dejittering and restamping
- PAT and PMT computation and insertion
- DVB-ASI aggregation
- SI and PSI processing
- Statistical multiplex pools
- Data insertion
- Synchronization of data and video
- CBR to VBR conversion / VBR to CBR conversion
- Bit rate conversion CBR to CBR, VBR to VBR
- SD/HD rate shaping

SPECIFICATIONS

INPUT/OUTPUT	
Inputs per Chassis	Up to 19 DVB-ASI
Video Streams Rate-Shaped	64 max. (SD), 16 max. (HD)
Interface Formats	GigE, DVB-ASI, DHEI
Data Coding	MPEG-2, MPEG-4 ACV (DVB, DCII, ATSC), SPTS, MPTS
Video Formats	MPEG-2 MP@ML, MP@HL (HD) MPEG-4 AVC up to level 4 (ad insertion only)
Frame Rates	25, 29.97, 30, 59.94, 60 Hz 3:2 pulldown (film)
Aspect Ratios	4:3 and 16:9
Audio Formats	Dolby® AC-3 and Musicam
Input Data Rate	200 Mbps per ASI port
Aggregate Output per Chassis Rate-Shaped/Spliced Programs GigE Content Aggregation	 Up to 160 Mbps 900 Mbps
Bit Rates of Individual Programs	0.2 to 20 Mbps (CBR or VBR)
INPUT PREPROCESSING MODULE FOR RESOLUTION CHANGE	
Input Ports	Four DVB-ASI
Input Horizontal Resolutions	528, 544, 704, 720 lines
Output Horizontal Resolutions	352, 480, 528, 544, 704 lines
Eight independent DSPs each process a single SD stream	
Vertical resolution unchanged up to 576 lines	
GIGABIT ETHERNET INPUT/OUTPUT MODULE	
Input/Output Ports	Two
Data Rate per Port	1 Gbps input/output
SPTS or MPTS per Port	Up to 128 UDP streams
Physical Interface	1000Base-CX/SX/LX
Connectors	Two electrical/copper RJ-45, 2 optical LC-SFP (optional)
Quality of Service (QoS)	802.1p, 802.1q
Unicast, multicast, ARP, ICMP, and IGMP support over UDP/IP	
Multimode (short haul), Singlemode (long haul)	
Optical transceivers (optional)	
GigE port mirroring	
CONTROL	
Ethernet (10/100Base-T)	Web access for integrated controller and GUI, XML and SNMP for external service managers, SCTE 35 cue processing and forwarding, API SCTE 30 for ad servers, remote system monitoring
RS232	Remote system monitoring, dial-in system monitoring through included modem
Contact Closures	Two GPI monitoring controls, two alarm outputs
Front-panel keypad and LCD	Configuration and monitoring, system and program status
ELECTRICAL/MECHANICAL	
Form Factor	1 RU, 19 in-rack–mountable 50,8 cm x 43,81 cm x 4,45 cm (excluding rack ears and connectors)
Input Voltage	100 to 240 VAC, -48 VDC (optional)
Frequency	50 to 60 Hz
Power Consumption	2.9 A VAC, 2.7 A VDC (optional)
Operating Temperature	0 °C to 50 °C
Side Cooling	Right to left
Humidity	5 to 95%, non-condensing
Safety Certification	UL, CUL, TUV
Emissions Certification	FCC Class A, CE