



EMARCS-1000

Encoder Management and Redundancy Control System

EMARCS-1000 is an advanced encoder management system for video service providers. Specifically designed for Motorola's MPEG-4 encoders, it provides a visually rich management and redundancy solution.

In today's highly competitive market, delivering uninterrupted video services while simultaneously controlling operational expenses is a necessity. EMARCS-1000 capitalizes on the proliferation of IP interfaces in the latest generation of headend equipment to provide a whole new level of simplicity and reliability.

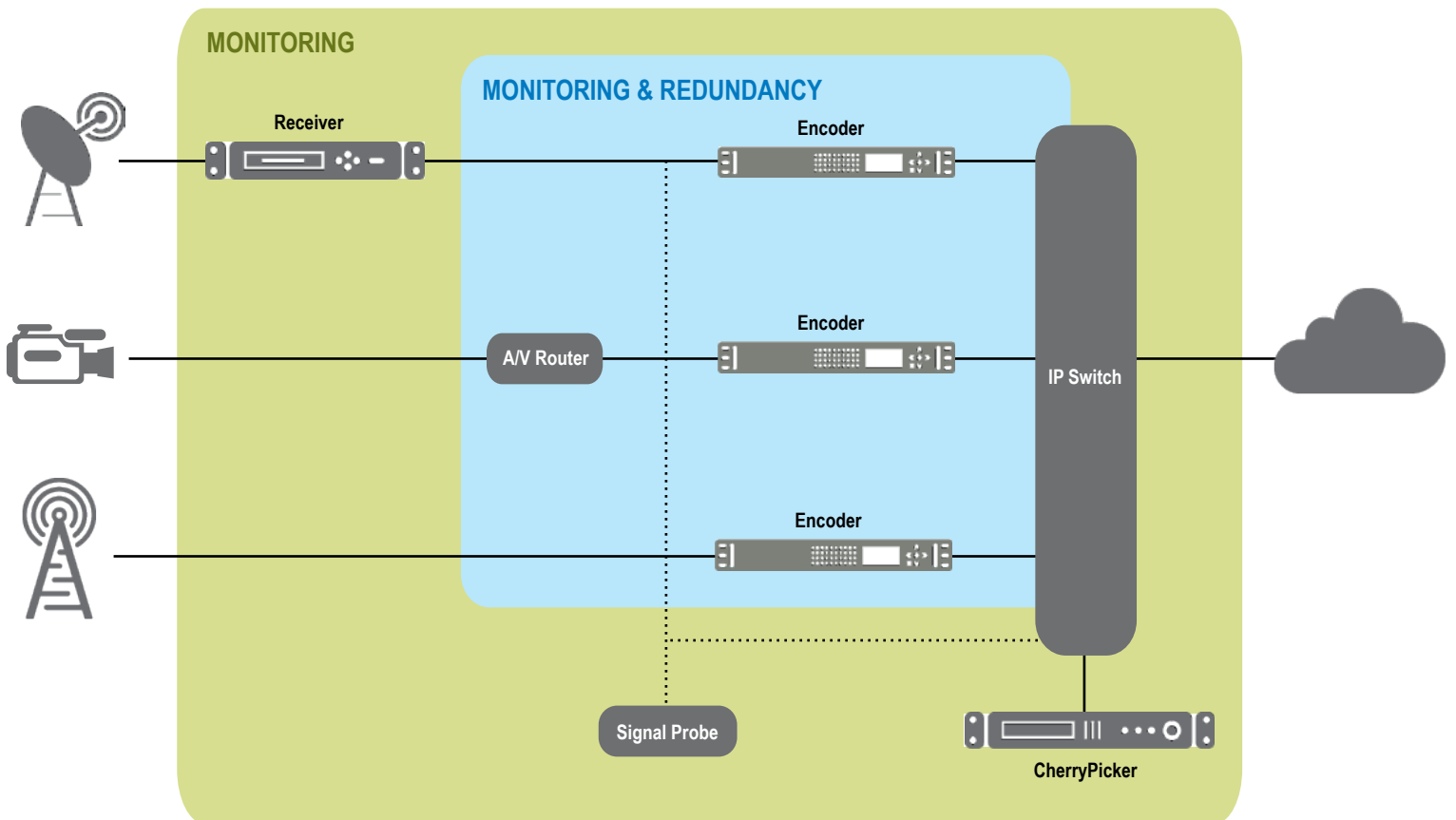
EMARCS-1000 seamlessly scales from a small off-air facility with a handful of video services all the way up to a regional network operations center with hundreds of video services including support for a wide range of 3rd party headend equipment.

Highlights Include:

- End-to-end video headend monitoring from the downlink to the core aggregation network
- SE Series MPEG-4 encoder redundancy control including support for upstream and downstream video and/or IP switches
- Scalable, multi-channel monitoring of HD and SD video services
- Control and monitoring over IP, ideal for multi-site monitoring between central headend and off-air facilities
- Highly graphical views including video thumbnails simplify monitoring and present status information at a glance
- Improved productivity and reduced Mean Time to Repair (MTTR) through innovative Monitoring by Exception
- Open architecture and standards based implementation supports a wide range of Motorola and 3rd party headend devices
- Redundancy options include multiple redundancy groups with single or dual backup encoders
- Supports SDI, ASI, RF and IP based video sources and corresponding encoders

Headend Monitoring

EMARCS-1000 monitors video services in all stages of the headend from the downlink to the core aggregation network. Supported Motorola devices include encoders, receivers, and cherry pickers. Supported 3rd party devices include a broad range of A/V routers, IP aggregation switches, receivers and signal analyzers. Devices are monitored through the use of SNMP and in the event of a fault the system instantly generates highly visible alarms which are automatically logged for reporting. The intuitive graphic interface allows operators to monitor a large number of video services at a high level and drill down to the details of a specific channel with a single mouse click.

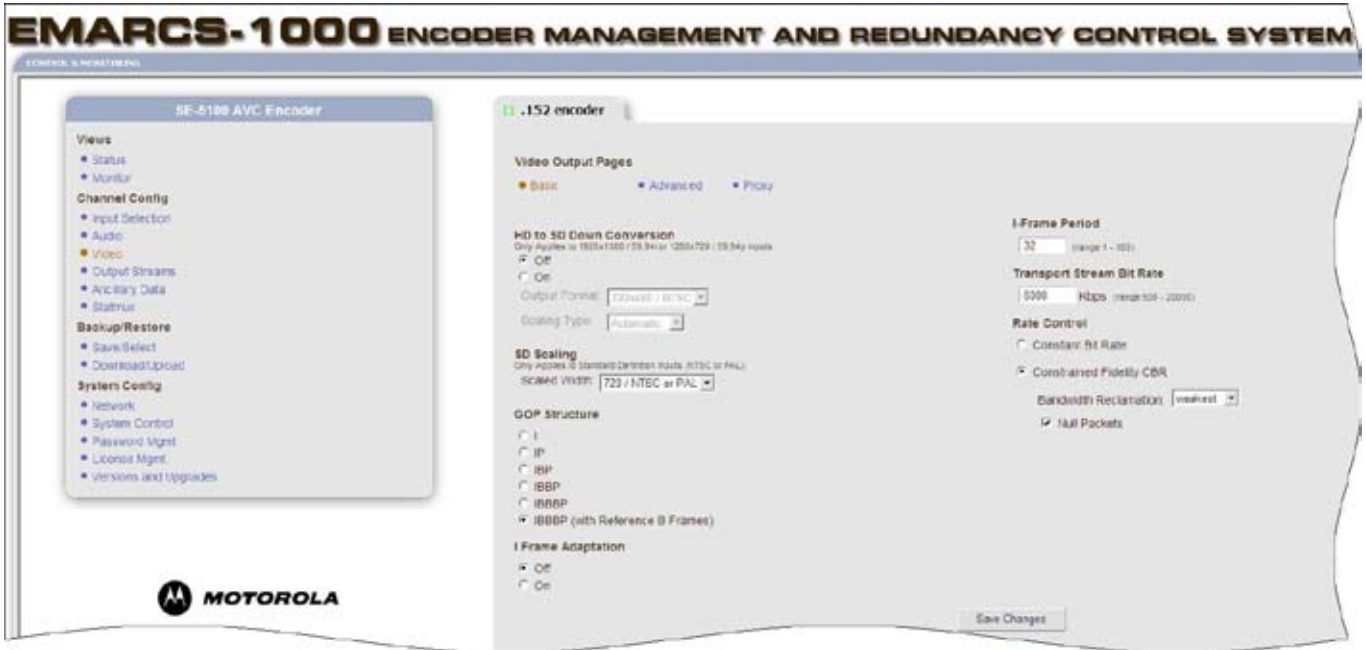


Encoder Redundancy

EMARCS-1000 provides extensive redundancy control for all models of Motorola SE series MPEG-4 Encoders. Supported encoder input types include HD-SDI, ASI, RF and IP. Video service switching control encompasses A/V routers and IP aggregation switches. Devices are controlled through the use of SNMP and in the event of a fault the system re-routes video services through the appropriate backup encoder. The highly reliable failover mechanisms provide operators with confidence in their ability to deliver continuous video services.

Encoder Provisioning

EMARCS-1000 provides an embedded view of the Motorola SE Series web GUI for provisioning purposes. Embedding the web GUI provides comprehensive access to the features of the SE Series encoders and seamlessly accommodates future SE Series encoder SW updates and enhanced capabilities without requiring a corresponding update to the EMARCS-1000 control system. The SE Series encoder web GUI delivers an intuitive environment for encoder provisioning.



Video Service Redundancy

EMARCS-1000 models the headend as a set of video services. The current status of all the video services is constantly available through the Channel Selector view. A highly detailed graphical view of an individual video service is a single-click away. With redundancy enabled, EMARCS-1000 utilizes SNMP to automatically reconfigure the headend in the event of a service interruption. HD-SDI, ASI, RF and/or IP video sources are re-routed, backup encoders are placed into service and the core IP network is re-configured as necessary to ensure continued delivery of video services.



DATA SHEET

EMARCS-1000

SUPPORTED DEVICES	Monitoring
<p>Monitoring and Redundancy</p> <p>Encoders: NE-4012/4112 (coming soon) SE-4011/4050 SE-5011/5050 SE-4100/4150 SE-5100/5150</p> <p>A/V Routers: Datatek D-2815 Control Module Protocol Digipath Control Protocol ETL NiGMa Series L-Band Routers and matrix controllers Lantronix (Lightwave) Matrix-Hub Protocol Leitch (Harris) ASCII Pass-Through Protocol Nevion (Network Electronics): Network Compact (serial) Network Modular (Ethernet) Miranda HRS-1801 NVISION Ethernet protocol Enterprise router and Compact router Pesa CPU Link Protocol No.1 (serial) USP (Unsolicited Status Protocol) Quintech XRM/SRM/MRF/MRM Series Protocol (serial) Snell (Pro-Bel): General Switcher Protocol (SW-P-02) General Remote Control Protocol (SW-P-08) Sony GVG-NP Emulation Thomson/Grass Valley: GVG 7000 Native Protocol (serial) (Philips) Jupiter VM-3000 ASCII Protocol UtahScientific PL-160/PL-320, RCP-1, RCP-3</p> <p>IP Aggregation Switches: SNMP-RMON (RFC 2819) MIB-2 (RFC 1213) In both single and redundant configurations Write community permission is supported (no SNMP V3 support)</p>	<p>Motorola Devices: DM-6400 DSR-4410 DSR-4500X DSR-4520X HDD-1100 SE-1010 SE-2000 SEM TMX-2010 CP-7585 CP-7600</p> <p>Third Party Devices: Miranda Kaleido IneoQuest Singulus G1-T APC AP7900 Scientific Atlanta D9228, D9660, D9828, D9850 Scopus CODICO CID 3100, IRD-2900 SeaChange MediaClient/MediaLibrary Sencore IRD 3384 Wegener Unity 4422, Unity 4600, DTV720 Quintech SMR Series</p>



MOTOROLA

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