

DATASHEET

Lean | Scalable | Future-Ready | Cloud-Optimized



DigiCaster is DigiCAP's flagship all-in-one ATSC 3.0 / TV 3.0 transport solution. Combining the functions of both media signaling/transport (DigiCaster-M) and scheduler/transmission (DigiCaster-S) into one integrated, software-based system. DigiCaster simplifies operations, reduces OPEX, and provides unmatched flexibility for hybrid broadcast environments.

Trusted by over 50% of U.S. ATSC 3.0 stations, DigiCaster is the de facto standard in NextGen TV transport, now fully adapted to Brazil's evolving TV 3.0 standards (ABNT).

Key Features

- **Unified ATSC 3.0 transport Solution:** Unified platform without silos or complexity.
- **Standards-compliant** with ATSC 3.0 and TV 3.0
- **Cloud-native deployment** that runs on COTS, Docker, Kubernetes, AWS, GCP.
- **Advanced multiplexing:** ROUTE/MMTP transport, ALP packetizing, STLTP output.
- **Support for Broadcast-Enabled Streaming TV** and SSAI integration.
- **Redundancy-ready:** Integrates seamlessly with DigiCaster-R for STL failover.
- **Real-time monitoring and APIs:** RESTful APIs, Prometheus metrics, and web dashboards.
- **Flexible licensing:** Static or floating software licenses.

Cloud Native & Future Proof

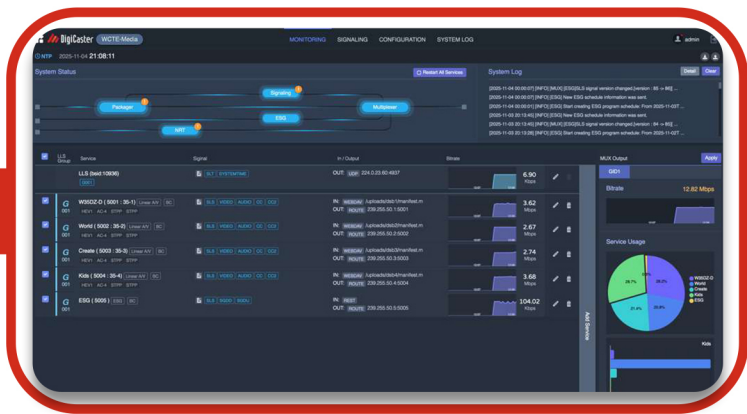
Broadcasters face the challenge of delivering **complex, scalable ATSC 3.0 services** while preparing for **Brazil's national TV 3.0 rollout**. Legacy siloed systems add cost, delay, and operational burden. DigiCaster's cloud ready-simpler architecture means faster deployments, lower operational costs, native support for immersive video (VVC), MPEG-H audio and interactive apps.

Architecture

- ✓ Media subsystem: Handles multiplexing of video/audio/captions, ROUTE/MMTP transport, signalling (LLS/SLS), EPG-to-ESG, and BEST virtual channel management.
- ✓ Scheduler subsystem: Constructs ALP packets, baseband frames, manages STLTP output with NTP/PTP sync, and supports advanced modes.
- ✓ Unified Control Plane: Operators manage both subsystems via a single intuitive web UI/dashboard.
- ✓ Automation & Monitoring: Full REST APIs, Prometheus-based metrics, role-based access, and real-time alarms.

Unified Control Plane

- ✓ Single intuitive web dashboard: Operators access all DigiCaster functions in one place.
- ✓ Automation of broadcaster tasks: Streamlined Routine operations such as certificate handling, scheduling, and multiplexing.
- ✓ Error reduction by design: Guided workflows and built-in validation.
- ✓ Information-rich configuration: Contextual data interface presents comprehensive parameters to give full visibility when making changes.



What This Means for Broadcaster

By deploying DigiCaster, broadcasters gain:

- **Scalability:** Supports hundreds of stations in a consistent, automated model.
- **Operational efficiency:** One platform covers both media transport and scheduling.
- **Broadcast innovation:** Natively supports SFN, LDM, and MIMO to expand coverage, optimize spectrum, and improve mobile reception, while also being fully ready for TV 3.0 apps, immersive media, and interactivity.
- **Faster rollout**
- **Lower risk:** Proven in South Korea and U.S. deployments, and now adapted for Brazilian standards.

Specifications

- **Standards:** ATSC 3.0 A/321, A/322, A/324, A/331, A/332, A/344, A/360; ABNT NBR 25601/25602/25607/25608.
- **Deployment:** Bare-metal, VMs, Docker, Kubernetes, AWS, GCP.
- **Monitoring:** Prometheus metrics, REST APIs, Web dashboards.
- **Transmission:** STLTP, LDM, MIMO, FEC encoding (SMPTE 2022-1).
- **Redundancy:** Full integration with DigiCaster-R.
- **Licensing:** Static and floating license options.

Input & Output

- **Inputs:** ROUTE/MMT/WebDAV, multicast/unicast IP, ALPTP, DSTP.
- **Outputs:** ROUTE/MMTP streams, STLTP, DSTP.
- **Compression:** ROHC-U IP compression for efficiency.
- **Formats:** Supports NRT APIs for datacasting.

Security & Compliance

- Full support for ATSC 3.0 Security & Service Protection (A/360).
- Integrated with CCMS for centralized certificate lifecycle management.
- RBAC for secure operations.
- Compliance with ABNT TV 3.0 emergency alerting (NBR 25607) and application security.

Support



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