Blink

blink.amphinicy.com

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Blink is to satellite data acquisition what the cheetah is to running.

Blink is a DVB-S2/CCSDS pure-software satellite modem.

The system utilizes the processing power of today's top-of-the-line commercial GPUs, to improve flexibility and speed up ground station evolution.

Blink is used for real-time, operational data reception. In addition, it works off-line, to help verify correctness and detect issues during assembly, integration & testing.

High Performance
· up to 400 MHz channels
· up to 1.2 Gb/s (32APSK)

Rich Reporting
· Detailed processing metadata
· Intuitive summaries
· Internactive graphical overview

Automation & Integration
· REST M&C interface
· Command line interface
· Amazon Machine Image (AMI)

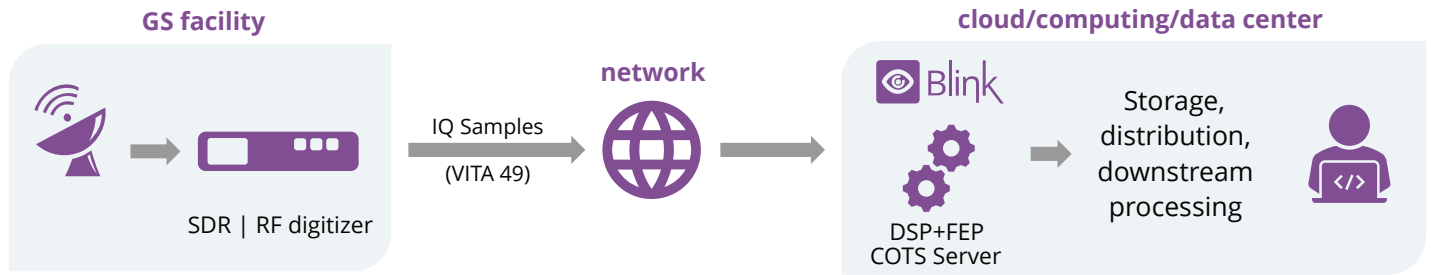### Supported Standards
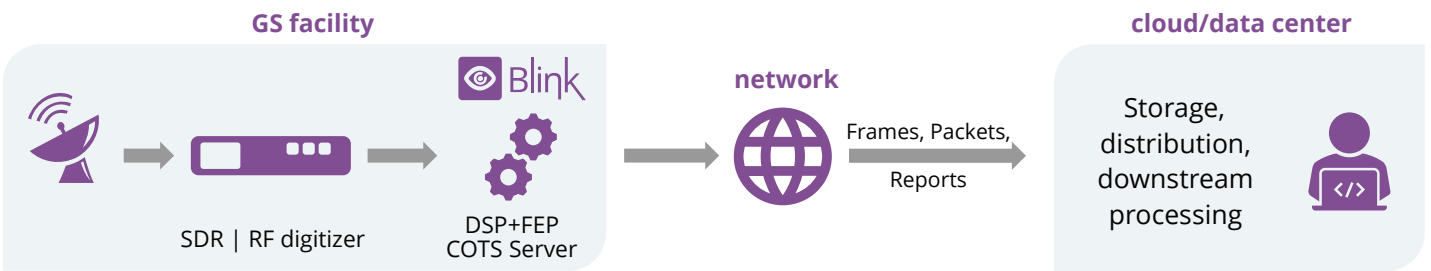· CCSDS
· DVB-S2 (including ACM)
· VITA 49.x digital IF

Deployment to cloud

It is really easy to deploy Blink to a public cloud. Machines are active only during a satellite pass, minimising cost. Blink receives a digitized signal and processes it in real time, sending output directly to downstream processors or to storage.

GS facility

SDR | RF digitizer

IQ Samples
(VITA 49)

network

cloud/computing/data center

Blink

DSP+FEP
COTS Server

Storage,
distribution,
downstream
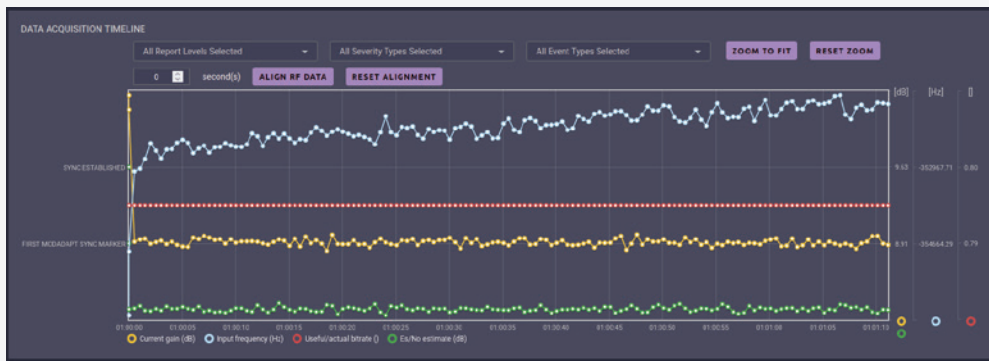processing

Deployment to typical ground stations

Blink works at existing grounds stations. A server equipped with a digitizer and running Blink software is deployed to the ground station instead of a conventional modem. Users get the benefit of an extremely flexible solution: **short lead times, quick and easy updates, rapid evolution and competitive costs**.

GS facility

SDR | RF digitizer

Blink

DSP+FEP
COTS Server

network

Frames, Packets,
Reports

cloud/data center

Storage,
distribution,
downstream
processing

Assembly, Integration, Verification, Testing

Blink detects 50+ types of reception events and generates HTML & JSON reports.

The HTML report is a rich, self-contained, interactive document providing intuitive summaries and low-level, per-event insights.

A glance at the summaries is enough to know that reception went well and the provided details are a treasure trove in helping diagnosing issues, particularly important during satellite development.

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