Blink

AVAILABLE STANDALONE AND ON aws marketplace

blink.amphinicy.com

Blink is to satellite signal processing what the cheetah is to running - fast, efficient, and optimised for peak performance.

Blink is a family of best-in-class software products for space communications.

Wideband modem, TT&C modem, channeliser, signal recording and playback, testing and more - Blink is your connection to space.

The system utilises the processing power of COTS servers to radically increase flexibility and accelerate ground segment evolution.



Wideband

- Up to 10 Gb/s!
- Up to 3 GHz carriers
- S, X, Ka, optical - any band, any bandwidth!

Supported Standards

- CCSDS, SCCC
- DVB-S2/S2X
- VITA 49.x & DIFI digital IF

TT&C

- (G)MSK, (G)FSK, BPSK, PCM...
- Various coding schemes
- Idle content auto-insertion
- Frequency sweeping
- Doppler-precompensation

Rich Reporting

- Detailed processing metadata
- Intuitive summaries
- Interactive graphical overview

Automation & Integration

- REST M&C interface
- Command line interface
- Amazon Machine Image (AMI)

Run on COTS Servers

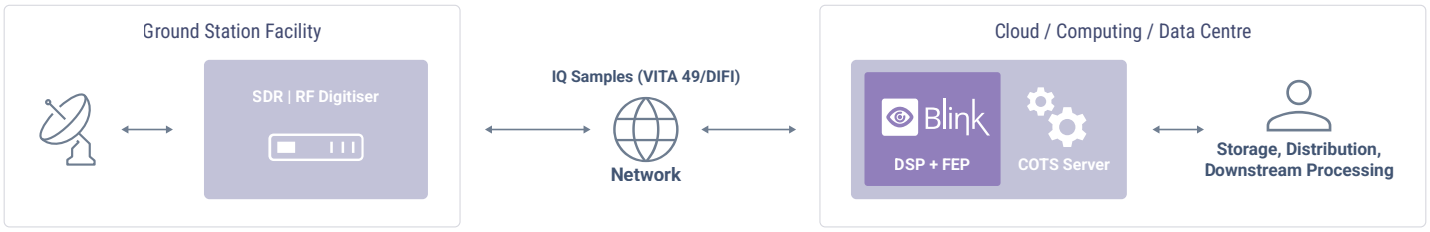
- x86 CPUs for broadest deployment
- nVidia GPUs for peak throughput & rack density

Advanced M&C

- Modern web UI
- Schemas, dashboards
- Highly user-configurable

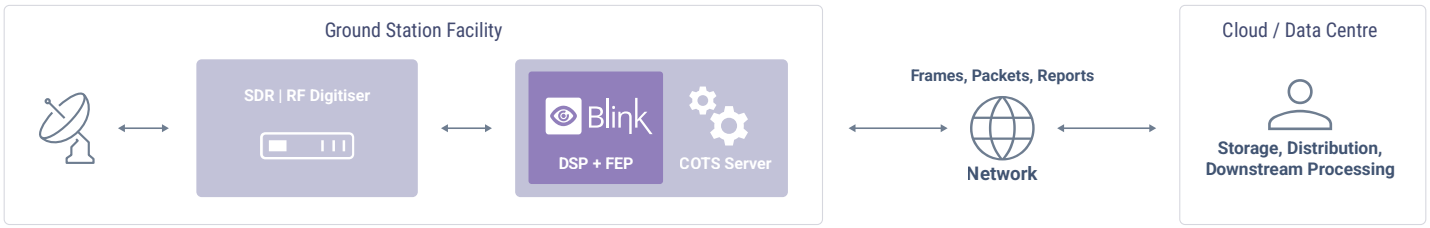
Deployment to the Cloud

Deploying Blink to a public or private cloud is simple. Machines run only during satellite passes, optimising resources utilisation. Blink processes digitised signals in real time, sending the output directly to downstream processors or to storage.



Deployment to Traditional Ground Stations

Blink integrates seamlessly with existing ground stations by replacing conventional modems with a server equipped with a digitiser and Blink software. Users get the benefit of a highly flexible solution: **short lead times, quick and easy updates, rapid evolution and competitive costs**.



Typical setup (2RU)

2x direct input, up to X-band
5 GHz of bandwidth



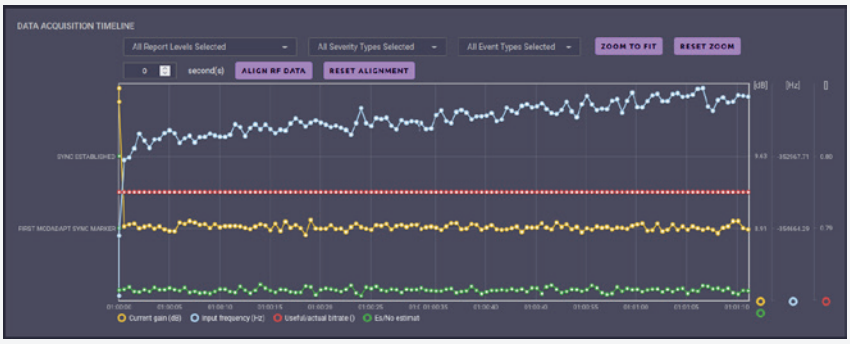
5 GHz channeliser
2.5 GSym/s payload receiver

Assembly, Integration, Verification and Testing

Blink detects 80+ types of reception events and generates detailed HTML & JSON reports

The HTML report is a rich, self-contained and interactive document offering both intuitive summaries and in-depth, per-event insights.

A quick glance at the summaries provides assurance of successful reception. The details provided are a treasure trove helping to diagnose issues, which is particularly important during satellite integration and on-boarding.



And So Much More!

Channeliser

- Splitter + combiner
- Very low latency
- Many subchannels
- Very compact deployment

Spectrum Analysis

- Modern web interface
- Live + replay views
- DIFI + analogue input

Signal Recording & Playback

- 8, 10 or 12-bit resolution
- Monitor and control UI
- Interactive + scheduled
- Invaluable for testing

Common

- DIFI
- IF or direct X-band
- Up to 5 GHz bandwidth
- 2+ channels, mix and match features

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