AMERGINT is a trusted and innovative partner in the evolution of mission-critical communications. Our solutions enable the satellite links our customers use to communicate with their vital assets around the globe and in space.

AMERGINT’s Ground Stations as a Service (GSaaS) Support Services for Azure help Azure satellite data users communicate reliably with Azure Orbital or a Microsoft Azure Orbital partner to establish satellite contacts and ensure access to their data. Our services provide:

**GSaaS ASSESSMENT**
A comprehensive assessment of customer requirements and compatibility with GSaaS concepts and operations.

**APPLICATION TAILORING**
Tailoring of the software applications and Virtual Network Functions (VNFs) needed to close the link through a GSaaS contact.

**DEPLOYMENT SUPPORT**

**ONBOARDING/INTEGRATION SUPPORT**
Supports customers during the satellite onboarding process, including deployment activities, VNF technical asset integration, and satellite link troubleshooting.

AMERGINT has been delivering satellite mission data processors, network gateways, TT&C Front End Processors, recorders, and modems for more than a decade. For every project, every application, we work with customers to understand their requirements and build a solution that works for them.
THE POWER OF SOFTLINK®

AMERGINT solutions are built upon SOFTLINK®, AMERGINT’s flexible and configurable software-defined architecture. SOFTLINK leverages a vetted library of modular, scalable software applications (called “Apps”) to deliver extensible solutions—solutions that transform to match your mission’s unique requirements and evolve to accommodate an ever-changing business and space ecosystem.

Contact us to see how we can develop and tailor Apps to meet your individual requirements.

APP FUNCTIONALITY

Below is a list of the functionality AMERGINT Apps provide in Azure. Apps can be quickly tailored to extend capabilities.

### Baseband Processing
- G3RUH
- HDLC
- Randomization/Scrambling
- FEC (Viterbi, RS, LDPC, Turbo, BCH, CRC)

### Telemetry/Payload
- Frame Synchronization
- Decommutation
- Simulated Streams

### Commanding
- Binary/Ternary
- Spacing and Timed-Release
- Formatting/Encoding
- Echo Checks

### CCSDS
- AoS Transfer Frames
- VCDU/MPDU/BPDU
- Space Packets
- Space Link Extensions (SLE)
- CLTU

### RF Data Capture/Transport
- Narrowband Digitization
- Wideband Digitization
- RF Recording
- Digital IF Recording
- RF over IP Transport

### Test
- Channel Emulation
- Noise Injection

### Waveforms

#### Operational Waveforms:
- BPSK/PM
- BPSK/FM
- BPSK/QPSK
- FSK
- FSK/AM
- GMSK
- UAQPSK
- SQPSK/OQPSK
- Spread Spectrum

Compatible with most small satellite radios and vehicles

#### NASA Waveforms:
- C2V2
- TDRS

#### Ranging:
- ESA, ESA-like Tone Ranging
- CCSDS PRN Ranging

#### Communication/Payload Waveforms:
- BPSK/QPSK
- 8PSK
- 16APSK
- 32APSK
- DVB-S2

#### Custom Waveforms:
- Ask about your waveform

If your program has a requirement not listed here, our team can work with you to implement the needed functionality into one of our existing Apps to connect you to your satellite.