SATCOM1
A Honeywell Company

SATELLITE COMMUNICATIONS
WHERE EVER YOU ARE
Satcom1’s mission is to provide state-of-the-art solutions and extensive support tailored to the highest expectations of our customers. Our strategy is based on your feedback. Thanks to a great deal of technical knowledge, combined with flexibility and a customer-oriented mindset, we are able to provide you the luxury of influencing our development path and in result – getting the solution for your business jet that you were looking for.

Satcom1 has been developing innovative solutions for “office in the sky” services since 2003, based on extensive first-hand experience in satellite communications and aeronautical field support. This experience, in the day-to-day operation and support of satellite communications systems, helped to identify a strong need in the aviation segment – a company that could be a comprehensive resource for complete satellite communications systems onboard aircraft.

SIMPLE. INNOVATIVE. SECURE.

Satcom1 strives to be a single, complete onboard solutions provider, when it comes to satellite communications. This includes ongoing support, configuration of the airborne network and the development of specialized software.

YOUR COMPLETE AIRTIME PROVIDER

At Satcom1, our diverse range of services, the level of support we provide to our clients, and our unparalleled technical expertise is what truly sets us apart. We work hard to ensure that we bring you the entire solution, tailored to your specific needs.

GLOBAL SERVICES INCLUDE:

- **Voice, Internet, Email, Fax** – make calls, check your email, and visit your favorite websites while flying.
- **Data Acceleration** – send & receive more data at a time thanks to compression technology.
- **Billing & Cost - Control Solutions** – control your costs with our innovative billing solutions such as Cabin Billing and Airtime Monitor
- **Cockpit Services** – gain access to Flight Planning, Graphical Weather, ACARS, iPad applications and more cockpit-related services.
- **One Number Dial** – reach all extensions in the aircraft with just one number, globally.
- **Customer Web Login** – online tool to access all information about the satcom system on your aircraft.
- **Personal Cell Phone Use, Video Conferences and IPTV** – use these services just as you do on the ground.
- **24/7 Tech Support** – troubleshoot everywhere, anytime. Our engineers provide VVIP service support.
Satcom1 is a provider for all satellite networks
- Inmarsat (Aero Classic, Swift64, SwiftBroadband, JetConneX Ka-Band)
- Iridium
- ViaSat services (Yonder KU-Band and Exede-In-The-Air Ka-Band)
- Honeywell GDC DATALINK services for cockpit

Sky is not the limit anymore. Use your devices onboard your aircraft seamlessly. You deserve that comfort. Stay connected. Enjoy.
COMPLETE DATALINK SOLUTION FOR YOUR COCKPIT

For more than 25 years, the Honeywell Global Data Center (GDC) has provided VHF and satellite datalink communications to datalink equipped aircraft worldwide. GDC’s robust two-way Aircraft Communications Addressing and Reporting System (ACARS) data communications systems are compatible with all major VHF and satellite networks across the globe. Satcom1 supports datalink via VHF, as well as via Iridium, and Inmarsat networks.

THE DATALINK SERVICES INCLUDE

- Free text messaging.
- Pre-Departure Clearances (PDC).
- Oceanic Clearances.
- Transcribed Weather Information for Pilots (TWIP).
- Controller Pilot Datalink Communication (CPDLC), custom short codes and many others.
- In addition to providing the data you need, GDC also offers expert service and support for a variety of datalink avionics.

With Global Data Center you gain access to the full suite of Air Traffic Services, Worldwide VHF and Satellite Datalink Communications, Worldwide Flight Planning, Graphical Flight Tracking, Flight Sentinel, Flight Following, and Trip Concierge Services. The solution is integrated with scheduling tools and provides mobile device support.

AVIOIP — THE UNIQUE CABIN SOFTWARE SUITE FOR YOUR BUSINESS JET

AvioIP is an airborne router application suite developed by Satcom1 and has been installed on corporate, VIP and government aircraft since 2005. It is the critical link between aeronautical satcom networks providing stability, reliability, and a host of new features.

AvioIP is built up of modules that can be chosen individually by the customer depending on needs and requirements.

With AvioIP, Satcom1’s “Office in the Sky” business aircraft cabins now offer enhanced productivity to the bizjet industry. AvioIP includes essential features for business aircraft services, such as enhanced internet access, email, videoconferencing, VoIP, built-in printer/scanner, and much more.

<table>
<thead>
<tr>
<th>Office-in-the-Sky * features</th>
<th>VIP Management features</th>
<th>Connectivity Enhancement features</th>
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</thead>
<tbody>
<tr>
<td>Manage user groups on board, so that the VIP gets the highest bandwidth, network redundancy, cabin control tools and more.</td>
<td>Send &amp; receive more data at higher speed rates. Watch videos, update your social media channels, browse Internet and send and receive heavy emails. Fast &amp; simple.</td>
<td></td>
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<tr>
<td>WAN/LAN Manager</td>
<td>User Group Management and Prioritization</td>
<td>Support of Inmarsat Swift64, Swiftbroadband, ViaSat Ku-Band and Iridium</td>
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<tr>
<td>Fax Over IP Manager</td>
<td>Multiple Channel Management</td>
<td>High-Speed Internet (Inmarsat SwiftBroadband channels aggregation)</td>
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<tr>
<td>Data Security (firewalls and filters)</td>
<td>Redundancy</td>
<td>Acceleration of data</td>
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<tr>
<td>VPN (Virtual Private Network)</td>
<td>User Manager (managed Internet Access)</td>
<td>Supervision</td>
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</table>
OUR CONSULTANCY AND SUPPORT SERVICES. PROACTIVENESS AND PROFESSIONAL EXPERTISE

Many years of competence within the satellite communications and avionics industry enables us to provide a service that keeps our clients satisfied.

A Satellite communication installation can quickly become costly and therefore it is essential to make the right decisions from the beginning. If you are interested in upgrading your network, our experts can advise you on what would be the best solution for your aircraft.

Satcom1 provides expert consultancy and advisory services to anyone needing a trustworthy resource when it comes to satellite communications. We offer several types of consultancy services for which we provide complete flexibility:

- Top-level consultancy - your full preparation for the next C-check satcom upgrade.
- Onboard network design, system recommendations and resources.
- Expert Second Opinion Review - our experts can value your existing proposal.
- On-Site Engineering Support and Training.
- Customized AvioIP software development.
- We can develop special features of AvioIP dictated by your needs.
- Testing of your equipment in Satcom1 Lab at Paris Le Bourget Business Airport.
- Remote troubleshooting 24/7.

Customer

Preferred service center

Satcom1

Customer

Preferred service center

Satcom1

Contact Satcom1

Architecture Study

Architecture Study Report

Decision

Possible Customised Software Development

Installation

Activation

Configuration Validation Participation in Flight Test Troubleshooting

Aircraft Delivery
You know you need to be connected wherever you fly. JetConneX (JX) offers the most extensive coverage via Inmarsat Global Xpress® (GX) Aviation Network, which is provided by a single operator. As you fly across time zones, you’ll have a continuous, consistent service as traffic is handed seamlessly across each Inmarsat satellite ground station.

**Why JX?**
Satcom1 is a global Distribution Partner of JX airtime. The service which will globally deliver high speed broadband in the skies – up to 50 Mbps to the aircraft*. It expands the possibilities for in-flight entertainment to real-time TV and TV on demand, as well as standard email and web browsing at a much faster speed. JX provides consistent higher performance to the user.

These figures show achievable throughputs and are based on the current system simulations and performance measurements by Inmarsat:

<table>
<thead>
<tr>
<th>Antenna Type</th>
<th>To Aircraft Spot Beam Capacity</th>
<th>From Aircraft Spot Beam Capacity</th>
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</thead>
<tbody>
<tr>
<td>Fuselage Mount Antenna</td>
<td>38 – 50 Mbps</td>
<td>3 – 4.7 Mbps</td>
</tr>
<tr>
<td>Tail-Mount Antenna</td>
<td>21 – 33 Mbps</td>
<td>1.4 – 2.2 Mbps</td>
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</tbody>
</table>

*Please note, these are official Inmarsat spot beam capacity figures. The bandwidth is shared between aircraft flying within a spot beam.

**JX AVIATION OPERATES AS A MANAGED SUBSCRIPTION SERVICE MODEL:**

- Actual throughputs achieved by the terminal are dependent on the customer subscription.
- Each subscription will have a defined Committed Information Rate (CIR) which is the minimum throughput guaranteed to each subscriber.

**SERVICE RELIABILITY**
Inmarsat has been operating the most reliable commercial satellite communications network for over 30 years and quality of service is fundamental to Satcom1 business model. For safety services and extra resilience, JX is complemented by SwiftBroadband service on the Inmarsat-4 satellites, which deliver on average 99.9% network availability.

**BANDWIDTH FLEXIBILITY**
It is hard to predict what types of devices and applications we’ll all be using in years to come, so JX will offer upgradeable bandwidth that allows you to flexibly adapt to changing requirements and make the most of your capital investment.
GLOBAL XPRESS COVERAGE

- Global coverage
- Seamless handover within satellite regions
- Rapid handover between satellites 30 seconds or less
- State-of-the-art mobility management
- Optimized ground network
- High network availability
- Single company providing service

MORE AFFORDABLE

The Global Xpress® network operates in the Ka-band, which has more available capacity, than other networks and is more efficient in its use of bandwidth. This means more affordable in-flight connectivity, with simple pricing options that allow you to budget on a predictable basis.
JetWave Hardware
Satcom1 is an appointed reseller of JetWave hardware by Honeywell, who is an exclusive manufacturer of satcom hardware for JetConneX.

The terminal is available in two configurations, a fuselage mount antenna system for larger grade aircraft and a tail mount antenna system for medium-sized aircraft.

<table>
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<tr>
<th>Aircraft size</th>
<th>Medium-size aircraft</th>
<th>Business liners, super-size aircraft</th>
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<tbody>
<tr>
<td>Satellites</td>
<td>Inmarsat-5 (1-5)</td>
<td>Inmarsat-5 (1-5)</td>
</tr>
<tr>
<td>Network</td>
<td>Global Xpress</td>
<td>Global Xpress</td>
</tr>
<tr>
<td>Service</td>
<td>JetConneX</td>
<td>JetConneX (Global Xpress for Air Transport)</td>
</tr>
<tr>
<td>Avionics</td>
<td>Jetwave MCS-8000 (tail mount antenna)</td>
<td>JetWave MCS-8200 (fuselage mount antenna)</td>
</tr>
</tbody>
</table>

For more specifications about the JetWave hardware, please contact Satcom1, sales@satcom1.com
Satcom1’s growth as global comprehensive resource for our customers lies in three simple philosophies that hold true in any aspect of our business.

SIMPLE
Satcom1 strives to simplify the complex world of airborne satellite communications. From basic airtime services to easy billing solutions and user-friendly tools we do our best to enhance customer experience to a full support level of service. Satcom1 provides the direction and services you need to maximize your investment in the most efficient and simple way.

INNOVATIVE
Satellite communications is a segment developed from pure innovation. The ability to look at customer needs and real world application drives Satcom1’s product offerings. We are pleased to be able to deliver the most innovative services in aviation satellite communications, including tools that increase service quality and bandwidth, customized software applications, and built-for-purpose network solutions.

SECURE
In today’s world data security has become a priority. At Satcom1, security services are integrated into a corporate infrastructure in order to fit the dynamic environment, to adapt to new technologies, and to anticipate new threat trends. It is crucial to use secure devices, protect personal information and business data as well as to take advantage of all that new technologies can offer, while minimizing the risk.

Satcom1 expands the definition of security to include trust, reliability, and overall comfort level in dealing with our company.

For more information, or a full list of services available, please call +45 46154546, contact sales@satcom1.com or visit www.satcom1.com