

**GLS9602 MODEM**



# SKYBITZ GLS9602 MODEM

Iridium CONNECTED™



## A BREAKTHROUGH IN COST AND FLEXIBILITY

The SkyBitz GLS9602 modem is the next-generation short burst data (SBD) transceiver sold exclusively by SkyBitz. Designed for integration into complete wireless tracking solutions, it provides the critical data communications and satellite tracking necessary for today's global Machine-to-Machine (M2M) solutions. Common industries where the SkyBitz GLS9602 modem can be applied are:

- **Oil and Gas Equipment**
- **Government & Defense**
- **Transportation and Logistics**
- **Maritime**
- **Chemical**
- **Aeronautical**
- **Utilities**

### KEY FEATURES

- True global coverage
- Low latency service
- Small transceiver

The small size, low-cost and ease of integration make the SkyBitz GLS9602 modem ideal for tracking remote assets that do not reside in terrestrial coverage zones due to mobility or permanent locations, or assets that require persistent coverage due to the value of the asset or cargo.

The modem is designed to exclusively support Iridium's Short Burst Data (SBD) service to allow your solution to cost-effectively send and receive short-sized data messages to and from the remote terminal efficiently over the Iridium network. Integration partners can create high value solutions spanning multiple vertical markets using the combination of the SkyBitz GLS9602 modem and SBD services that include: low latency service, small transceiver, small antenna, and global coverage.

## THE POWER OF IRIDIUM SBD AND SKYBITZ GLS

The revolutionary SkyBitz GLS9602 modem combines the powerful SBD service from Iridium with SkyBitz's proprietary Global Locating System (GLS) creating endless possibilities for developers. The global low latency SBD service and the SkyBitz GLS solution provides the ideal solution for monitoring and updating status on everything from containers and trucks to planes and ships.

The SkyBitz GLS9602 modem features an enhanced capability over the standard Iridium 9602 with its GPS-based position finding services, without any additional GPS chipset. It allows for receiving and transmitting GPS signals through the Iridium SBD network to the SkyBitz remote datacenter where positions are calculated and transmitted to end-users.

To manage resources more effectively, the SkyBitz GLS solution calculates the position of an asset remotely through the computing power of the SkyBitz datacenter, rather than in the device itself.

The SkyBitz GLS9602 modem is a single board unit designed as a black box transceiver module with all device interface controlled by a single multi-pin interface connector in addition to the antenna connector. The SkyBitz GLS9602 modem, SBD air-time and GLS service are sold exclusively through SkyBitz.

## SKYBITZ GLS9602 MODEM



### HARDWARE SPECIFICATIONS

#### MECHANICAL DIMENSIONS

**Length:** 41.0 mm

**Width:** 45.0 mm

**Depth:** 13.0 mm

**Weight:** 3.0g

#### ENVIRONMENTAL SPECIFICATIONS

**Operating Temperature Range:** -40°C to + 85°C

**Operating Humidity Range:** ≤ 75% RH

**Storage Temperature Range:** -40°C to + 85°C

**Storage Humidity Range:** ≤ 93% RH

#### RF PARAMETERS

**Frequency Range:** 1616 MHz to 1626.5 MHz

**Duplexing Method:** TDD (Time Domain Duplex)

**Input/Output Impedance:** 50Ω

**Multiplexing Method:** TDMA/FDMA

#### DC POWER INPUT

**Idle Current (average):** 45mA

**Idle current (peak):** 195mA

**Transmit Current (peak):** 1.5A

**Transmit Current (average):** 190mA

**Receive Current (peak):** 195mA

**Receive Current (average):** 45mA

**SBD message transfer – average current:** 190mA

**SBD message transfer – average power:** ≤ 1.0W

#### CERTIFICATIONS

CE, FCC and IC certified