

# beySAT-CERTUS

A UAV IP Datalink Solution for Global BVLOS Communication and Backhaul.



## HARDWARE FEATURES

### MECHANICAL

#### Size & Weight

- Dimensions: 8.0 x 5.0 x 1.5in (12.7x 20.3 x 3.2 cm)
- Weight: 1.6lb. (0.7 kg)

#### LEDs

- Single multi-purpose, multi-color LED:
  - › Green =Initial Power On
  - › Red =Unit in Bootloader Mode
  - › Blue Blink =OS is Booting
  - › Blue Steady =Device is Ready
  - › Red Blink =Iridium Firmware Upgrade
  - › Blue Blink =beySAT Firmware Upgrade

#### Connectors

- 1x Cellular SMA female connector
- 1x Iridium SMA female connector
- 2x M 12connectors (1xEthernet & Power, 1xUSB & RS232)

### OPERATING PARAMETERS

#### Electrical

- External power
  - › 10- 34 VDC
  - › POE
- Power consumption
  - › 7W nominal power
  - › 18W peak power

#### Environmental

- Operating temperature range: -40°C to +70°C
- Storage temperature range: -40°C to +85°C
- Operating humidity range: ≤75% RH
- Storage humidity range: ≤93% RH

#### Regulatory Standards and Compliance

- US (FCC)
- EU (CE MARK)
- Canada (IC)
- IP65 rating

### CONNECTIVITY

#### Cellular

- LTE-A CAT 6 module with M.2 form factor
- Supports LTE-A Carrier Aggregation
- Worldwide LTE-A and 3G UMTS / HSPA(+) coverage
- 300Mbps receive (DL) / 50 Mbps transmit (UL)
- User-accessible SIM

#### Iridium Certus® 100

- Simultaneous voice and IP data
- 88 Kbps receive (DL) / 22Kbps transmit (UL)
- Frequency: 1616MHz - 1626.5MHz
- GPS
  - › GLONASS
  - › BeiDou
  - › Galileo
- 33 tracking channels
- 99 acquisition channels
- 210 PRN channels
- Anti-jamming and multi-tone active interference canceller
- <2.5 m CEP horizontal position accuracy

#### Wi-Fi

- 2.4 / 5 GHz
- IEEE 802.11ac / a / b / g / n
- Certifications with multiple antennas:
  - › FCC (USA)
  - › IC (Canada)
  - › ETSI (Europe)
  - › Giteki (Japan)
  - › RCM (AU/NZ)

# SOFTWARE FEATURES

## INTERNET

- Cellular internet
- Satellite internet
- Ability to fail-over
- Ability to disable satellite data but not voice communication

## VOICE

- Support for up to 2 FXS / FXO USB adapters
- Support for up to 20 SIP clients
- Call logs

## CONFIGURATION

- Local configuration of beySAT devices using Wi-Fi or Ethernet
- Remote configuration of beySAT devices
- Bulk device configuration
- DHCP server, client, or static IP address
- Wi-Fi SSID and password
- POTS and SIP voice extensions

## FIREWALL

- Firewall Profiles for quick and easy firewall setup
- Ability to apply different profiles per interface (satellite vs cellular)
- Advanced Rules that allow customers to add functionality beyond the set profiles

## REPORTING

- Position and event reporting
- Customizable report rate
- Device data usage
- Network-wide data usage
- Data usage by transmission type
- Data usage by device type
- Device health monitoring
- Network-wide health monitoring
- Device diagnostics

## MONITORING

- Device CPU and modem temperatures in real-time
- Modem signal strengths in real-time
- Modem data usage
- Least-cost routing status
- Voice call logs
- Device location monitoring
- Device health monitoring

## DEVICE MANAGEMENT

- View status and customize settings in a web UI
- Firmware upgrade
- Factory reset
- Customizable schedule

## IRIDIUM ANTENNA OPTIONS



**Single Channel  
Antenna**  
Iridium only



**Dual Channel  
Antenna**  
Iridium +GPS  
(coming soon)



## ABOUT BEYOND – UTM & BVLOS CONNECTIVITY

BEYOND is the connectivity business brand of LikeABird Ltd and offers innovative cellular and satellite solutions for Medical Delivery, Automated Inspections, Emergency Response, Security & Surveillance, Large-Scale Surveying, Warehouse Management, B2B/B2C Delivery and other commonplace services. At BEYOND, we work tirelessly to stay ahead of the technological curve, and bring to life easy scalable solutions, services and businesses that could not otherwise have been imagined (embedded data connectivity, VPN terminals, agnostic software solutions, secure communications, etc.). This is not only beneficial to us and our customers, but also to the economy in general.

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