

Afterburner

The smallest, most cost-effective ASIC-based low power modem designed exclusively for the Thuraya® network.

Next generation mobile platform for the Thuraya® network.



What it does.

Afterburner is the smallest, most cost-effective ASIC-based low power modem designed exclusively for the Thuraya® network. Afterburner essentially delivers all of the same features and low-cost connectivity as SRT Wireless' current *VIPTurbo* modem, but in a smaller, lighter design with lower power requirements.

Why you need it.

- Low cost connectivity with a smaller, lighter modem
- Onboard processor utilized for customer-embedded applications
- Separate RF Headend Unit for antenna integration featuring single Coax for power, RF, and Control
- Separate Connector interface card for terminal vendor proprietary interface designs
- Cost-effective Engineering Support Service packages available



Compact size – the smallest ASIC-based power modem designed exclusively for the Thuraya network.

2x4 inch / 12 layer board
66% smaller than *VIPturbo*



Lightweight – with fewer components, Afterburner is 38% lighter than *VIPturbo*.

VIPturbo modem = 1280
Afterburner = 790



Low power requirements – compact design allows for more efficient energy usage. Uses 50% less power than *VIPturbo*.

Estimated actual 5-5.5w



Low cost connectivity – Afterburner is the most cost-effective ASIC-based modem for connectivity across the Thuraya network.

THURAYA  The Afterburner module connects with Thuraya's satellite network for reliable connectivity.

Key features.

- Thuraya Circuit Switch Voice Capability
- Thuraya SMS Capability
- Thuraya GmPRS Capability
- Thuraya IP Capability
- Reception of GNSS data in NMEA format through either the antenna port, USB port, Ethernet port, or Serial port
- Incorporates 'Discrete SIM' functionality (when implementation information provided to SRTW)
- Spot-Beam reselection based on position data
- Support for one SIM Card socket
- New IMEI to differentiate from *VIPturbo* module
- New Ethernet OUI/MAC to differentiate from *VIPturbo* module
- Direct connection to SpaceCom SR221 or SR321 with up to 4db of cable loss tolerable
- 80-pin Host Interface Bus connector
- Supports IPv4 and IPv6
- Log files available for debugging purposes
- Configurable via webpage interface
- Supports the following router functions:
 - Port Forwarding
 - NAT
 - DMZ
 - DHCP
 - IP Pass Through
 - Firewall

Afterburner Technical Specifications

General Specifications

ThurayaIP Data (10.5dBi antenna):	444kbps / 384 kbps standard (shared channel) down/up (with 10.5 dBi antenna) 384 kbps streaming (dedicated channel) up/down (with 10.5 dBi antenna)
Circuit Switch Voice	Supported
SIM Card Interface	Single Mini SIM Cards (Voice / IP SIM)
Command and Control	Web page and AT Commands
Supported Handsets	Addvalue Thuraya Handset

Power Requirements

Modem Input Power	5-16 VDC (Host Interface Board supplies this Voltage) 5W typical. Absolute Min 4.85v, Absolute Max 16v
HPA Input Power	28 VDC to 42 VDC depending on head-end type; delivered through coaxial cable
DC Power (at SMA RF output)	45 VDC maximum at 1.5 A maximum (provided by power supply at Host Interface Board's DC power input).
Power Consumption	5 W typical, excluding head-end amplifiers

Environmental Specifications

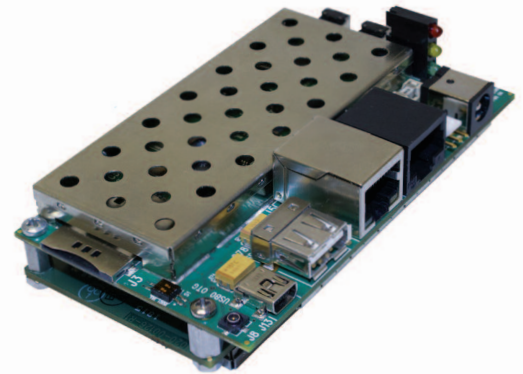
Operating Temperature	-25 °C to +70 °C
Vibration	Operating: 0.75g @ 20Hz to 300Hz Non-Operating: 4g @ 20Hz to 500Hz
Shock	Operating: 20g @ 2ms half-sine pulse Non-Operating: 200g @ 2ms half-sine pulse

Receiver Specifications

RX Frequency Range	1525 MHz to 1559 MHz
Req Head End Gain	38 dB to 46 dB (nominal 42 dB) NOTE: includes LNA, Diplexer, etc., but excluding antenna gain and cable loss
Maximum Cable Loss Tolerated by the System	4 dB
Maximum Allowable Module RF Input Power	0 dBm
Maximum Allowable Head-End Noise Figure	1.8 dB
Nominal Antenna Gain	10.5 dBi

Transmit Specifications

RF Output Power	4W (from HPA at antenna connector, HPA not included)
TX Frequency Range	1625.5 MHz to 1660.5 MHz
Nominal HPA Input Power for Maximum Output	-3 dBm
Maximum Cable Loss Tolerated (Modem module to antenna head-end)	4 dB
Maximum Power Output from Afterburner	+1 dBm
EIRP with 10.5dBi Antenna	16.5 dBW EIRP



Schedule a product demonstration.



See the Afterburner in action. To schedule a free product demonstration, please contact:

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