

BitPipe™ 4G LTE-Cat1 / 3G Cellular Modem



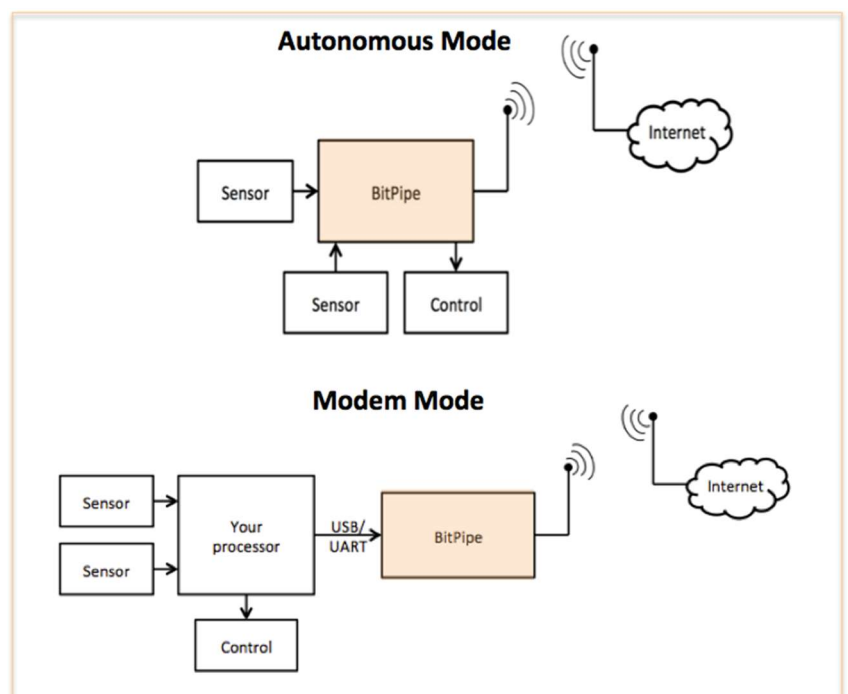
BENEFITS

- Embedded wireless Modem for IoT applications
- Certified and carrier approved for North America, 4G LTE-Cat1 with 3G fallback cellular radio
- Accepts user micro-SIM (3FF)
- Supports modem and autonomous modes of operation
- Embedded IP stack
- HTTPS/SSL support
- USB & serial UART interface
- Four user configurable Digital and Analog inputs/outputs
- Extended temperature range -40C to +85C
- Low power
- Direct Li-ion battery input or external DC supply
- Compact size: 40 x 30 x 7.4mm

Add cellular modem connectivity to your own IoT hardware solutions or use BitPipe™ in autonomous mode for standalone M2M applications.

BitPipe™ BP43G1-US Cellular Modem is a fully integrated compact wireless interface device that simplifies the development of IoT M2M connectivity solutions, reducing R&D costs and accelerating time to market.

BitPipe™ family of interchangeable devices incorporates everything you need; certified cellular radio, DC-DC converter, digital and analog inputs & outputs, USB 2.0, serial communications and software API. SSL data communication, SMS messaging and I/O reporting using MQTT are all supported.



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BitPipe™ 4G LTE-Cat1 / 3G Cellular Modem

SPECIFICATION	BitPipe™ BP43G1-US (for North America)
RF WWAN	
4G LTE / 3G Cellular Bands	LTE-Cat1 Bands 2, 4, 5, 12; UMTS/HSPA+ (3G) 850, 1700/2100 (AWS), 1900MHZ
Antenna connectors	U.FL x1 (Tx/Rx), U.FL x1 (Rx Diversity)
SIM Slot	x1, Industry standard 3FF micro-SIM
Wireless Data Rate	
Downlink (DL)	10.2Mbps (4G LTE), 7.2Mbps (3G)
Uplink (UL)	5.2Mbps (4G LTE), 5.7Mbps (3G)
Serial Interface	
USB 2.0	480 Mbps
UART	9600/115200 bps
I2C master	Standard mode 100kbps
Input Power	
Radio VIN	3.4Vdc to 18Vdc
Controller VCC_IO	2.4Vdc to 3.6Vdc
Digital & Analog Inputs/Outputs	
Inputs/Outputs	x4 independently configurable
Digital input	Dry Contact, TTL/CMOS
Analog input	0V to 3.3V
Digital output	3.3V (open-drain with pull-up)
Analog output	Pseudo-analog PWM (external filtering required)
Programming & Management	
API Supported functions	Device info, IP connectivity, Mobile setup & info, MQTT, SMS, UART/I2C parameters, GPIO control
Module API SDK	C language Software Development Kit for integrating BitPipe into Host applications
Environmental	
Storage Temperature	-40C to +85C
Operating Temperature	-40C to +85C
Physical	
Overall Dimensions	40mm x 30mm x 7.4mm (l x w x h)
Regulatory Approvals & Compliance	
Cellular Industry	PTCRB, AT&T, Rogers, other (contact Briowireless for latest list of approved carriers)
Approvals	FCC Part 15 Subpart B Class B, ICES-003 issue 5:2012 class B
Warranty	
Warranty	2 years

BitPipe™ Models	DESCRIPTION
BP43G1-US-UFL	Bitpipe™ 4G LTE Cat-1 with 3G Fallback cellular modem for North America *

* Other drop-in and interchangeable wireless BitPipe modems are available. View www.briowireless.com for details.