Godwil

Godini

Universal Controller

Standard Set with Carrier Board

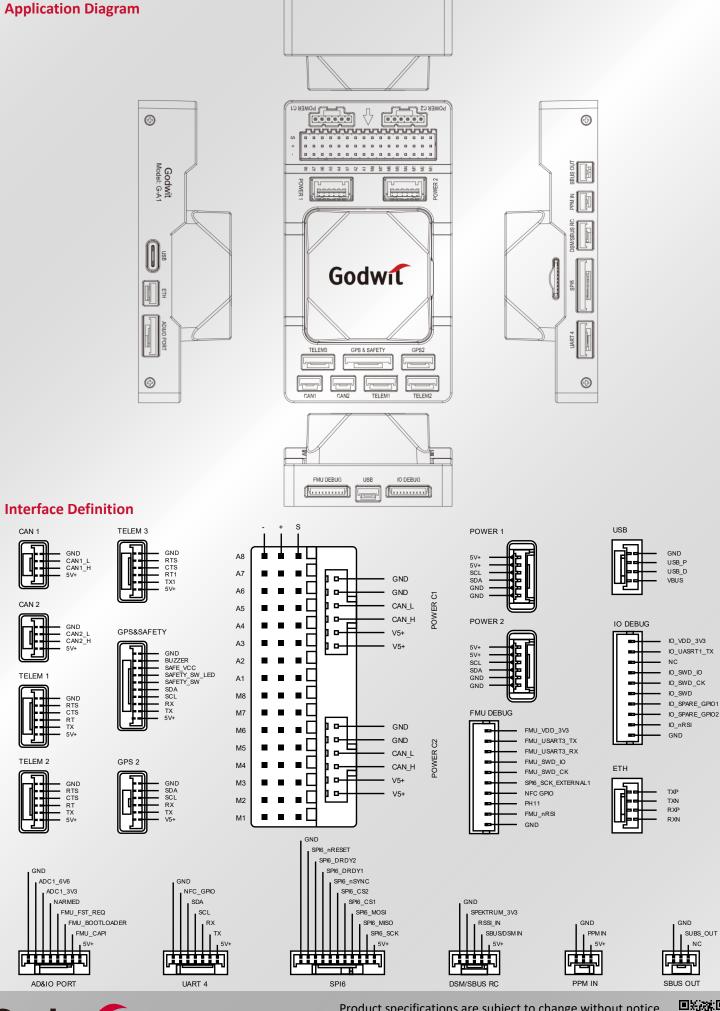
The G-A1 is a state-of-the-art universal controller developed based on the Pixhawk Autopilot v6X Standard. It adopts an H7 double-precision floatingpoint arithmetic unit, Cortex[®]-M3 coprocessor, independent bus, and power supply. The IMU with its 6-axis inertial sensor, pressure/temperature sensor, and geomagnetic sensor is designed for safety and rich expansion capabilities. With an integrated 10/100M Ethernet Physical Layer (PHY), the G-A1 can also communicate with the mission computer (airborne computer), high-end surveying and mapping cameras, and other UAV-mounted industrial equipment for high-speed communications, meeting the needs of advanced UAV systems.

Benefits

Compatibility: Design based on the industry-standard Pixhawk Autopilot v6X Development-friendly: Open SDK to support developers to customize applications Communication: High-speed Ethernet connection supports data transmission Stability: Three redundant sensors improve data accuracy and stability Expandability: Supports a variety of external devices, including Ethernet devices and CAN modules Trustworthy: Not made in China, ensuring trusted quality and reliability

Specifications

FMU Processor	STM32H753IIK (Arm [®] Cortex [®] -M7 480MHz)
IO Processor	STM32F103 (Arm [®] Cortex [®] -M3, 72MHz)
Memory	2 Mbytes of flash and 1 Mbyte of RAM
іми	 Bosch BMI088 (vibration isolated) TDK InvenSense ICM-42688-P x2 (one vibration isolated) TDK Barometric Pressure and Temperature Sensor CP-20100 x2 (one vibration isolated) PNI RM3100 Geomagnetic Sensor (vibration isolated)
IO Interface	 2 CAN Buses (CAN1 and CAN2) 3 TELEM Ports (TELEM1, TELEM2 and TELEM3) 2 GPS Ports (GPS1 with safety switch, LED, buzzer, and GPS2) 1 PPM IN 1 SBUS OUT 2 USB Ports (1 TYPE-C and 1 JST GH1.25) 1 10/100Base-T Ethernet Port 1 SM/SBUS RC 1 UART 4 1 AD&IO Port 2 Debug Ports (1 IO Debug and 1 FMU Debug) 1 SPI6 Bus 4 Power Inputs (Power 1, Power 2, Power C1 and Power C2) 16 PWM Servo Outputs (A1-8 and M1-8) Micro SD Socket (supports SD 4.1 & SDIO 4.0 in two databus modes: 1 bit (default) and 4 bits)
Power Requirement	4.6V to 5.7V
Current Ratings	 TELEM1 and GPS2 output current: 1.5A (max.) All other port combined output current: 1.5A (max.)
Operating Temperature	-40°C to +55°C
Storage Temperature	-40°C to +70°C
Operating Humidity	5% to 95% (Non-condensing)
Casing Material	ABS (carrier board), Zinc Alloy (IMU cover)
Dimensions	92.2 (L) x 51.2 (W) x 28.3 (H) mm
Accessory	Cables (optional), Extension Board (optional)
Weight	Net Product: 77.6g (carrier board with IMU) Accessory Pack: 53.4g Product Box: 232g





Product specifications are subject to change without notice. www.accton.com / www.accton-iot.com sales@accton-iot.com