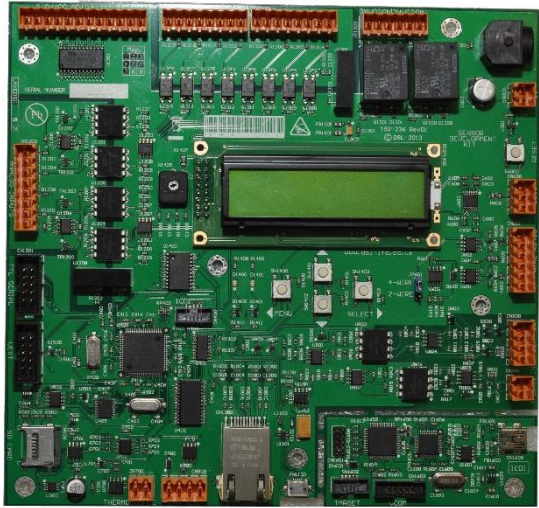




A.M.P.I.C.



Features

- TIVA™ Cortex®-M4 based MCU
- EEPROM for system settings
- NVRAM for running parameters
- microSD Card for logging
- RS232 Serial Port
- 2/4 wire RS422/485 Port
- On-board Temperature sensor
- CJC Thermocouple input
- Fully isolated 4-20mA driver
- Fully isolated 4-20mA receiver
- CAN Bus
- Fast Ethernet
- USB OTG
- Four isolated analog inputs
- Eight isolated digital inputs
- Six open collector outputs
- Two change-over relays
- Two line backlit character LCD
- Four push button keypad
- Expansion via I²C, Serial and SPI
- TI TivaWare™ Peripheral Library
- DSL Driver Library
- Tested with TI CCS compiler
- In circuit debug interface

ARM® Multi-Protocol Interface Converter

Introduction

The DSL A.M.P.I.C. is the fast time to market development system for Remote Sensors, Stand-alone Control Systems and Industrial I/O.

The DSL A.M.P.I.C. system allows product designers to create a proof-of-concept in double quick time and provides a low risk path to your perfect product.

The concept

Choose from the comprehensive set of proven interfaces, required for your product.

Create your application specific program code supported by proven DSL device drivers and reliable scheduler, with full C source code developed using the TI CCS compiler (90-day free trial available).

Choose your required power source: mains input, DC or battery supply.

Take advantage of the Custom Design service to create your product, with functionality matched to your needs and no superfluous interfaces or costs.

All aspects of the design are controlled in-house, to IPC standards and the complete design IP is owned by you.

DSL utilise the Altium Designer® unified electronics design environment augmented with Cadence® Allegro® PCB Router.

Design files are protected using CollabNet® SubversionEdge version control and backed up daily, with Symantec™ Backup Exec™.

UK Design, Manufacture & Support

Support throughout the duration of your project is also provided free of charge via our highly qualified engineers.





A.M.P.I.C.

Specification

CPU	Texas Instruments Incorporated Cortex®-M3 core based Stellaris® LM3S9B92 Up to 80MHz; 100 DMIPS performance 256KB Flash, 96KB RAM
Additional Storage	2K EEPROM, 64K Non-Volatile RAM, microSD socket
Communication Ports	RS232 2/4-wire RS422/485 CAN Bus Fast Ethernet 4-20mA, loop powered, current Driver with 5kV isolation 4-20mA, loop powered, current Receiver with 5kV isolation USB OTG
Analog Inputs	Four 0-3V with 5kV isolation
Digital inputs	Eight switch closure with 5kV isolation
Digital Outputs	Six open collector outputs capable of sinking 500mA and sustaining 50V when off
Relays	5A at 250VAC, 5A at 24VDC
Display	16x2 character transfective with LED backlight
Temperature sensor	11-bit resolution 0.125°C ±2°C
Thermocouple input	14-bit 0.25°C resolution ±2°C CJC K-Type [J/N/T/S/R-Type support available]
Expansion Ports	UEXT Connector: TTL Serial (no handshaking), I ² C and SPI buses TTL serial port 10-pin 0.1" connector with full handshaking

The specifications for products designed with this system can be adapted to meet your requirements.

Environmental Specification

Operating Temperature	-20°C to +70°C [-40°C to +85°C excluding LCD]
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Ordering Options

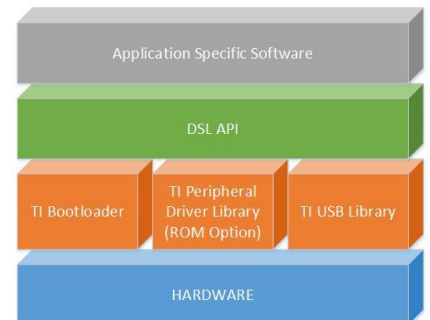
A.M.P.I.C. System	600-1253-000
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