



DEVELOPMENT KIT for the Aveso PRIMERO 617™ Programming and Demonstration Unit

The Development Kit is intended to allow the user to activate, program and simulate applications using the Aveso Primero 617™ Display Module. The Development Kit may be used to demonstrate the display module at the push of a button using Aveso-supplied demonstration firmware. The tool also supports programming of user-specific firmware. User-specific firmware may be loaded to the embedded microprocessor via JTAG or SPI interface.

PRODUCT FEATURES

- Supports custom firmware development and testing
- Multiple programming functions
- Simple demonstration capabilities
- External connection point for additional diagnostics
- Powered via coin cell battery or AC power adapter
- Compact and portable

INCLUDED IN DEVELOPMENT KIT

- Development Kit hardware unit
- Three (3) Primero 617 numeric display modules
- Full hardware and software documentation
- Texas Instruments' MSP430™ emulation tool
- AC external power adapter
- Protective packaging

ABOUT AVESO

Aveso is the leading provider of flexible display components suitable for high volume, cost-sensitive mass consumer applications. Integrated into products such as credit cards, product packaging, and medical diagnostics, Aveso displays provide consumers with immediate access to relevant and useful data, enhancing safety, security and convenience. For more information, please visit www.avesodisplays.com.

Hardware Specification

Dimensions	82.55mm x 58.42mm x 20.32mm
Color	Gray
Connectors	Zero Insertion Force (ZIF)

Programming via JTAG or Serial Peripheral Interface (SPI)

Display Module Power Requirements

Minimum Voltage	1.8V
Maximum Voltage	3.3V
Peak Write/Erase Current	<6mA
Response Time	<1 second

Display Module Physical Characteristics

Display Area	29.50mm x 8.57mm
Digit Size	4.12mm x 2.84mm
Thickness	450µm (top of encapsulated chip)

Embedded Microprocessor: Texas Instruments' MSP430™
2KB RAM, 60KB + 256 bytes flash

Pads provided for 32.768kHz crystal