

# Deployable Development Platform



E-Series cards are small form factor, high-performance solutions for embedded and hardware accelerated computing. E-Series cards are based on industry standard Xilinx FPGA devices, and on standard I/O interfaces including ExpressCard and CardBus.

- Xilinx Virtex-4 FPGA  
FX20 / FX40 / FX60
- 256MB DDR2
- Green Hills Integrity and Embedded Linux Support
- CardBus interface up to 1 Gbps and is reconfigurable to other bus interface protocols.
- Dynamic Image Swapping: Allows for multiple FPGA and user software images to be stored in FLASH memory. FPGA and software Images are paired, allowing image sets to be swapped dynamically.

## E-14 FX20 / FX40 / FX60

### Specifications

- Xilinx Virtex-4 FX20 / FX40 / FX60
- CardBus Type II
- 256MB DDR2 RAM
- 64MB Flash ROM
- Tri-Mode Ethernet (10/100/1000)
- RS-232 Serial Port
- JTAG Hardware / Software Debugging
- 54-bit High Speed Digital I/O Bus
- 16-bit External Digital I/O Bus
- Stainless Steel Case
- Temperature Range: 0<sup>0</sup> to 70<sup>0</sup> C

### Applications

- Embedded Systems and Digital Signal Processing
- Embedded Control Systems and Web Servers
- MATLab/Simulink™ Acceleration
- Software Defined Radio
- Encryption / Decryption
- Image Processing
- Communications Protocol Decoding
- Supercomputing / Cluster Computing
- Security Algorithms and Testing
- UAVs and Surveillance Systems
- Pattern Matching and Bio Informatics

### Software

- PicoUtil: Utility program for FPGA management (Windows and Linux)
- Xilinx standard tool set support (ISE, EDK, and Platform SDK)
- ImpulseC CoDeveloper Platform Support Package

