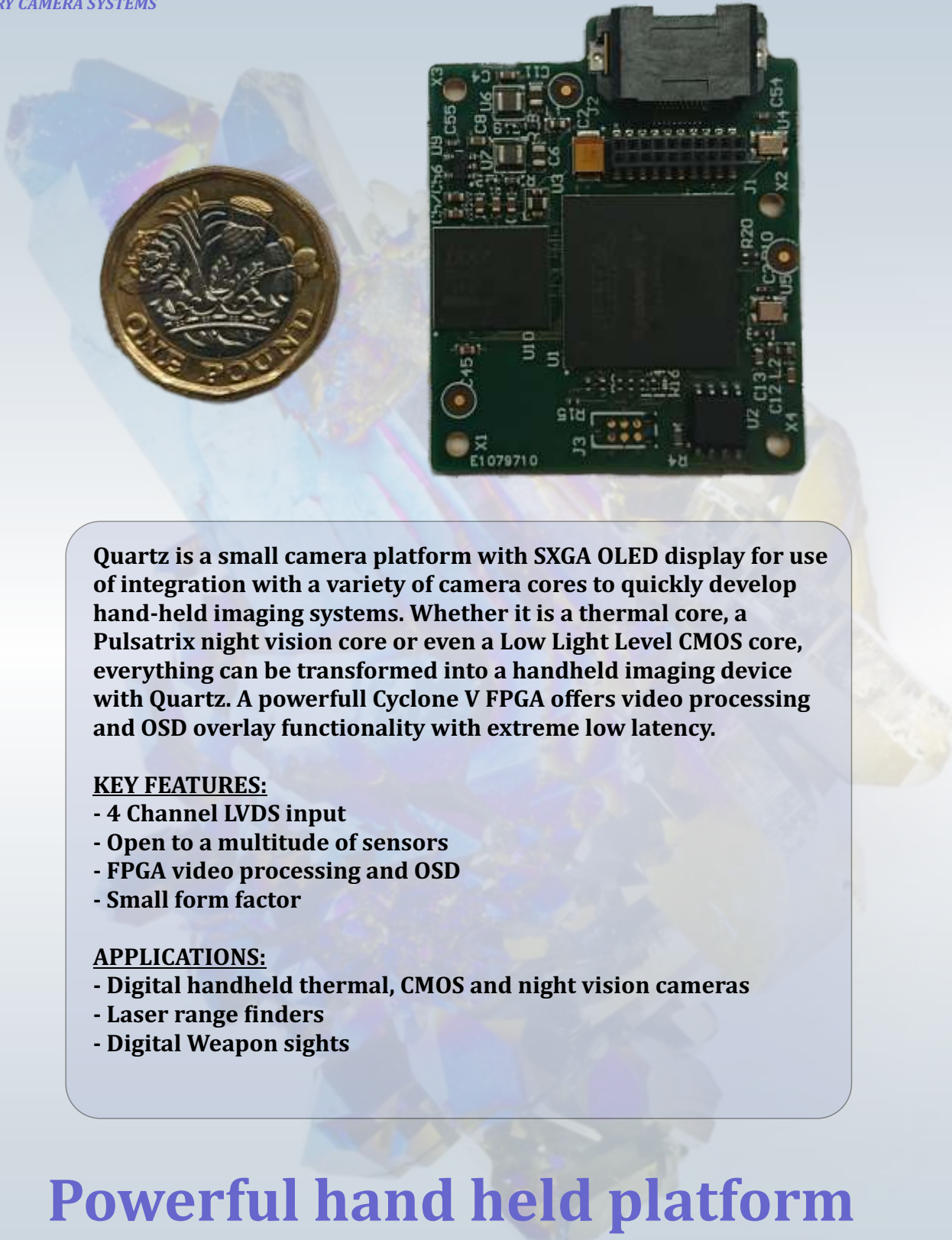


QUARTZ



Quartz is a small camera platform with SXGA OLED display for use of integration with a variety of camera cores to quickly develop hand-held imaging systems. Whether it is a thermal core, a Pulsatrix night vision core or even a Low Light Level CMOS core, everything can be transformed into a handheld imaging device with Quartz. A powerful Cyclone V FPGA offers video processing and OSD overlay functionality with extreme low latency.

KEY FEATURES:

- 4 Channel LVDS input
- Open to a multitude of sensors
- FPGA video processing and OSD
- Small form factor

APPLICATIONS:

- Digital handheld thermal, CMOS and night vision cameras
- Laser range finders
- Digital Weapon sights

Powerful hand held platform
Preliminary specifications

Quartz

System basics

Type Multi sensor OEM board camera platform
Sensors LWIR, CMOS, ICMOS

Input and output

Input 4CH LVDS
Output eMagin SXGA-096 OLED-display

Features

Image processing FPGA (Cyclone V) based digital enhancement, overlays, white balance, gamma correction with attached LPDDR2 memory for framerate adjustment and temporal or spatial filtering.

OSD On screen display, configurable with user designed graphics. Multiple fonts present, including Korean, Chinese, Japanese, Hebrew, etc.

User button interface 4 pushbuttons for power control and menu interfacing. Selectable fonts and programmable icons are available in built-in memory to facilitate intuitive interfacing.

ShadowBoost™ Extended dynamic range for CMOS and ICMOS

Dimensions

Main board dimensions Approx. 45x35, see mechanical outline.
OLED board dimensions Customizable, approx. 700mm² required including mounting holes. Actual size depends on required shape.

Power

Input voltage 2.5V .. 12V DC

Environmental parameters

Operating and storage temperature -30°C to +75°C, -40°C to +85°C (Without ICMOS)
-20°C to +60°C, -35°C to +65°C (Including ICMOS)

Shock MILSPEC design
Vibrations MILSPEC design

Specifications are subject to change without notice