

SENSOR

| | |
|--------------|---------------------------------------|
| Sensor | ON Semiconductor CMOS |
| Type | CMOS Rolling Shutter |
| Resolution | 3840(H) x 2484(V) 9.5 MP Mono |
| Pixel Pitch | 2.4 µm x 2.4 µm |
| Active Area | 9.22 mm x 5.96 mm - 10.98 mm diagonal |
| Peak QE | 40% at 550 nm |
| Max Datarate | 248 MHz |

PERFORMANCE SPECIFICATIONS

| | |
|------------------------|-----------------------------|
| FPN | <1% of signal |
| PRNU | <2% of signal |
| Dynamic Range | 54 dB |
| Bit Depth | 8 or 10-bit |
| Responsivity at 550 nm | 4 LSB10 /nJ/cm ² |
| Mono Data Formats | Mono 8 and Mono 16 |

MECHANICALS

| | |
|------------|--------------------------------------|
| Dimensions | 32 x 48 x 11 mm (without lens mount) |
| Weight | 35.8 g (without optics) |
| Mounting | Holes for 0-80 hardware |
| Lens Mount | C-Mount and CS-Mount (Board Level) |

INTERFACES

| | |
|------------------------|-----------------|
| Interface / Data rate | USB 3.0/ 5Gbps |
| Board Level GPO/Strobe | 2 outputs, 3.3V |

FRAME RATES

| Resolution | Free Running |
|-------------|--------------|
| 3840 x 2484 | 22 |
| 1920 X 1080 | 88 |
| 1280 X 1024 | 123 |
| 640 X 480 | 385 |

Frame rates will vary based on host system and configuration

BOARD LEVEL GPIO INTERFACE PIN OUTPUT DESCRIPTION

| Pin | Pin Name & Function |
|-----|------------------------------------|
| 1 | 3.3V power output |
| 2 | No Connection |
| 3 | Ground |
| 4 | GPO1, 3.3V HCMOS output |
| 5 | GPO2, 3.3V HCMOS output |
| 6 | Clock, 3.3V (I2C access for OEM's) |
| 7 | Data, 3.3V (I2C access for OEM's) |
| 8 | No connection |

Board connector: Molex 53398-0871 (8-pin, 1.25mm pitch, vertical)
Cable receptacle: Molex 51021-0800
Cable crimp terminals: Molex 50079-8100

POWER REQUIREMENTS

| | |
|--------------|----------------------------|
| Voltage Req. | 5V DC (from USB connector) |
|--------------|----------------------------|

SOFTWARE

| | |
|----------------------|--|
| PixeLINK Capture OEM | Free Download (www.pixelink.com) |
| DirectShow | Bundled with PixeLINK Capture OEM |
| TWAIN | Bundled with PixeLINK Capture OEM |
| SDK | API, sample code and LabVIEW wrappers |

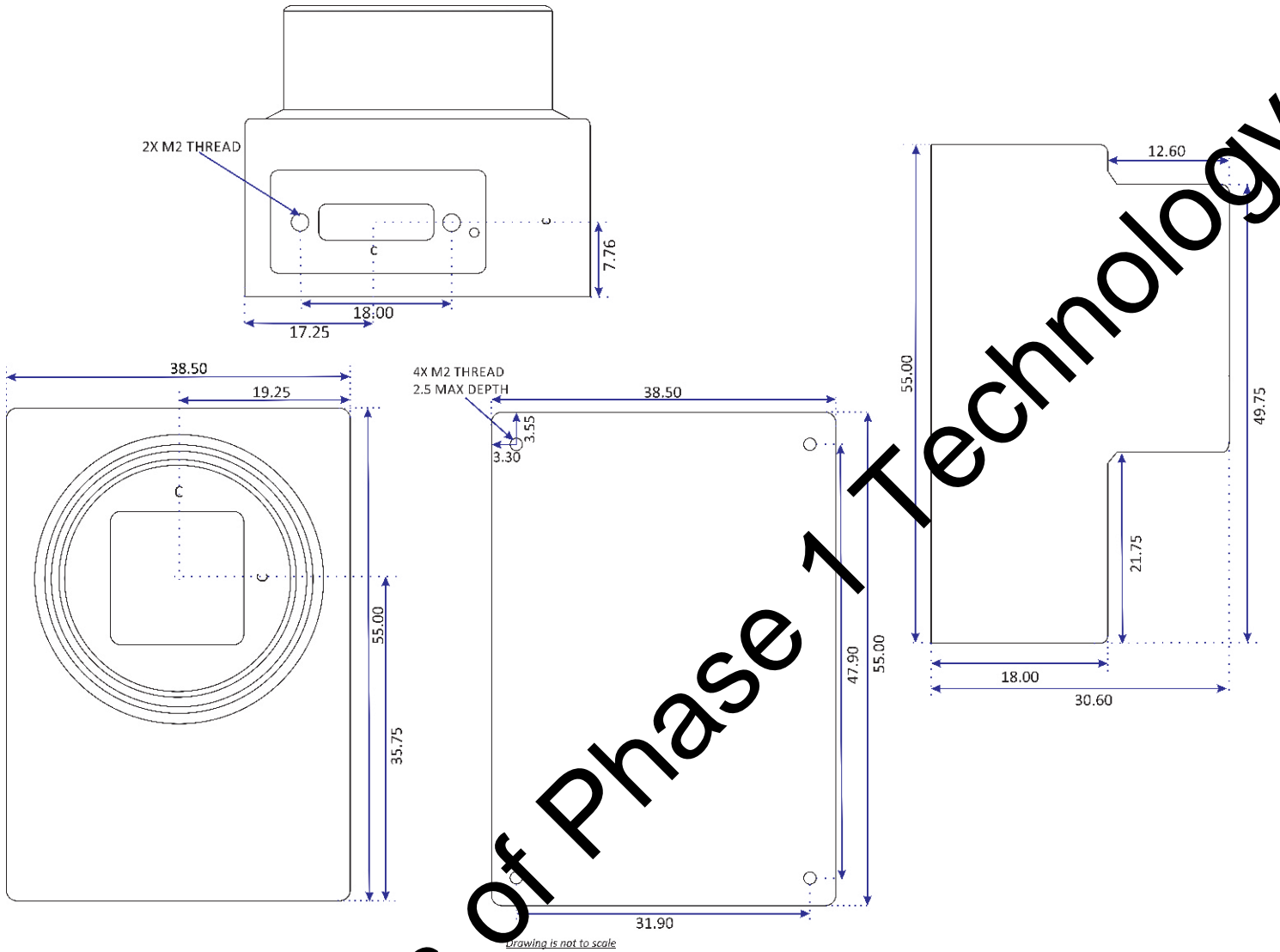
ENVIRONMENTAL & REGULATORY

| | |
|-------------------|------------------------------|
| Compliance | RoHS |
| Shock & Vibration | 300 G & 20 G (10Hz - 2KHz) |
| Operating Temp. | 0°C to 50°C (non-condensing) |
| Storage Temp. | -45°C to 85°C |

COMPUTER & OPERATING SYSTEM

| | |
|------------------|-----------------------|
| Processor | Intel i5 or better |
| Memory | 4 GB recommended |
| Operating System | Windows 7 / Windows 8 |
| Hard Drive Space | 75 MB |





Compliments Of Phase 7 Technology

ORDERING GUIDE

Board Level Model

Enclosed Model

PL-D729MU-BL

PL-D729MU