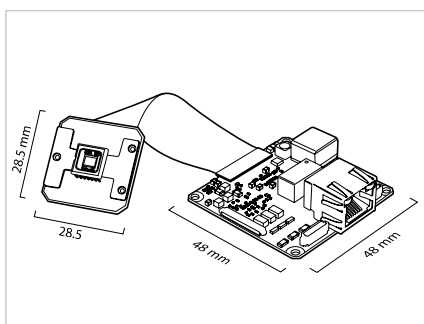
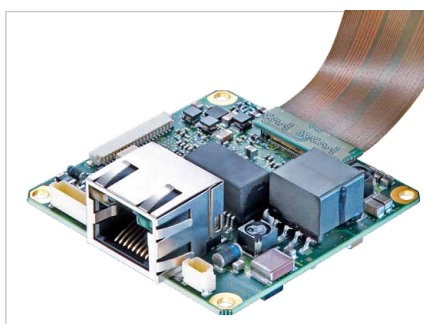


MXG20

Facts and Data

Digital Monochrome Board Level Camera, 2 Megapixels, Gigabit Ethernet



GiGE[®]
VISION
GEN<I>CAM



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Sensor Information

| | |
|-------------------|-----------------------------|
| Model Name | SONY [®] ICX274 |
| Type | 1/1.8" progressive scan CCD |
| Native Resolution | 1624 × 1228 pixels |
| Exposure Time | 4 μsec ... 60 sec |

Acquisition Formats

| | | | |
|---------------|---|--------------------|---------------|
| Image Formats | Full Frame | 1624 × 1228 pixels | max. 27.0 fps |
| Pixel Formats | Mono8, Mono12, Mono12 Packed | | |
| Partial Scan | True Partial Scan, Region of Interest (ROI) arbitrary | | |

Image Pre-processing

| | |
|-----------------|--|
| Analog Controls | Gain (0 ... 26 dB), Offset (0 ... 1023 LSB 14 bit) |
| Color Models | Mono |

Camera Features

| | |
|---------------------------|--|
| Internal Buffer | 120 MB (max. 15 images) |
| Synchronization | Free running, Trigger |
| Trigger Sources | Hardware, Software, ActionCommand, All or Off |
| Trigger Delay | 0 ... 2 sec, Tracking and buffering of up to 512 triggers |
| Sequencer | Automated control for series of images using different sets of parameters |
| Sequencer Characteristics | up to 128 sets of parameters, up to 65536 loop passes, up to 65536 repetitions of sets of parameters, up to 65536 images per trigger event |
| Sequencer Parameters | Exposure Time, Gain Factor, Output Line, ROI Offset x, ROI Offset y |
| Digital I/Os | 1 input line, 3 output lines |

Interfaces and Connectors

| | |
|-------------------|---|
| Data Interface | Gigabit Ethernet, Transfer rate 1000 Mb/Sec Fast Ethernet, Transfer Rate 100 Mb/Sec Connector: 8P8C Modular Jack (RJ45) |
| Process Interface | JSTBM08B-SRSS-TB 8 pins |
| Power Interface | JSTBM03B-SRSS-TB 3 pins |

Mechanical Data

| | |
|------------|--|
| Housing | Board Level Camera without housing |
| Lens Mount | C-Mount (Adapter) |
| Dimensions | Sensorprint 28,5 x 28,5 Systemprint 48,0 x 48,0 |
| Weight | 30 g (without Optics Adapter) |

Electrical Data

| | |
|-------------------|--|
| Power Supply | 12 ... 24 V DC (external Power Supply) 36 ... 57 V DC (Power over Ethernet) |
| Power Consumption | approx. 4.3 Watts @ 12 V DC and 27.0 fps approx. 4.7 Watts @ 48 V DC (PoE) and 27.0 fps |

Environmental Data

| | |
|-----------------------|--|
| Storage Temperature | -10 °C ... +70 °C |
| Operating Temperature | Depends on the thermal encapsulation |
| Device Temperature | T _{max} = 70 °C @ Measurement Point |
| Humidity | 10% ... 90% non condensing |