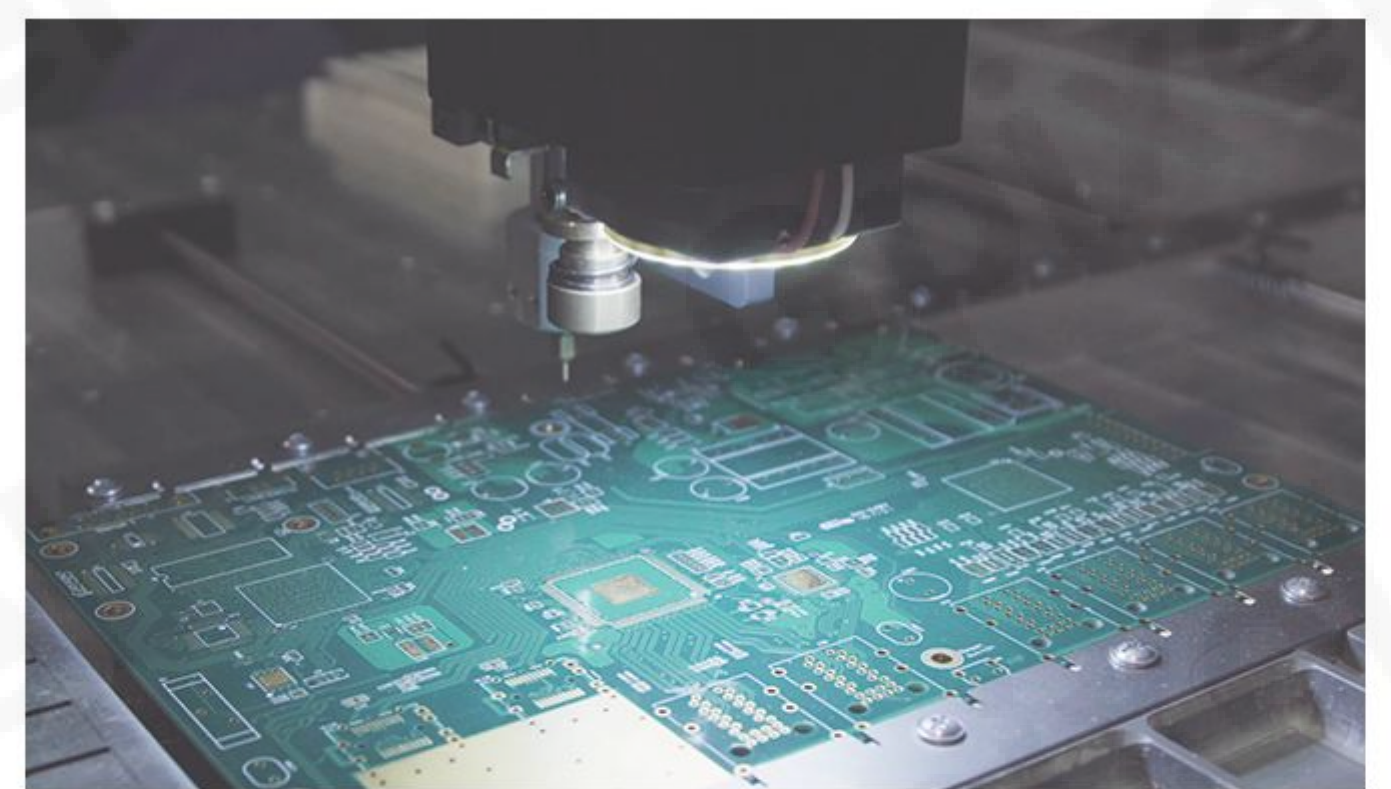


## GL/GLT/GLR Series

### HIGH SPEED LINEAR AND TDI IMAGE SENSORS

#### GL/GLT/GLR

The GL / GLT / GLR product family includes line scan, TDI, and rectangular-pixel linear image sensors in a wide range of horizontal resolutions from 2k to 16k and line rates up to 1 MHz. These sensors feature pixel sizes of 3.5  $\mu\text{m}$ , 5  $\mu\text{m}$ , 7  $\mu\text{m}$ , and 14  $\mu\text{m}$ , providing a comprehensive selection to suit diverse linear array applications.



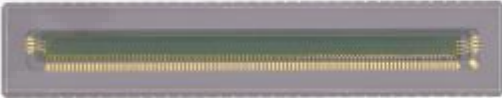
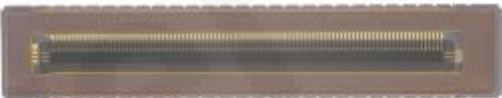
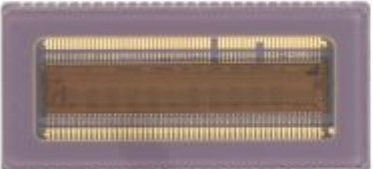
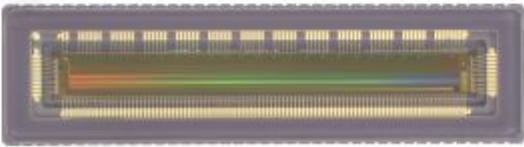
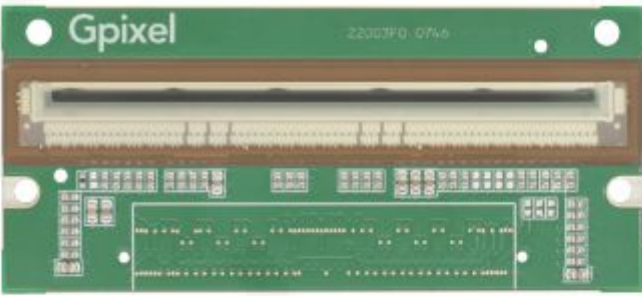
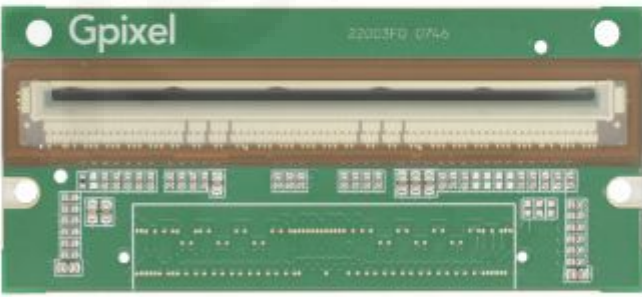
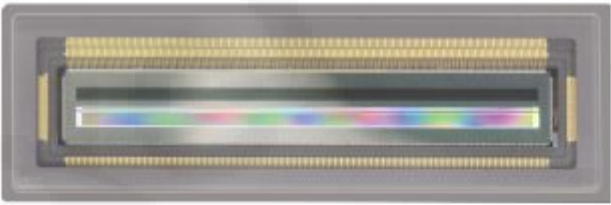
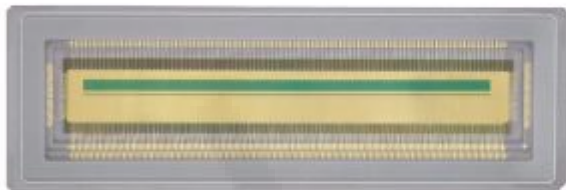
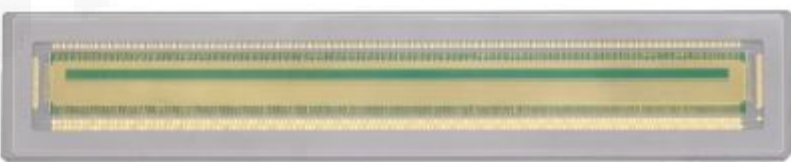
#### Product Family Features

- ✓ High Line Rates
- ✓ High Dynamic Range
- ✓ High QE
- ✓ GL3504: C-Mount Compatible

#### Applications

- ✓ Industrial Inspection
- ✓ Semiconductor Inspection
- ✓ DNA Sequencing
- ✓ Color Sorting



| CMOS Image Sensors                                                                                        | Resolution                              | Pixel Size (μm²)       | Optical Format | Shutter Type | Peak QE                                       | FWC Max(ke⁻) | Temporal Noise Min (e⁻) | DR Max (dB) | ADC (bit) | Max Line Rate(kHz) |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------|----------------|--------------|-----------------------------------------------|--------------|-------------------------|-------------|-----------|--------------------|
| <div>GLR1205BSI-S</div>  | 512 x 1                                 | 12.5 x 250             | 6.4 mm         | Global       | 95%                                           | -            | 0.58 mV rms             | 4224:1      | -         | 9.43               |
| <div>GLR1402BSI-M</div>  | 2048 x 1                                | 14.0 x 350             | 28.7 mm        | Global       | 90.7% (420 nm)                                | 176          | 3.1                     | 95.1        | 14/12     | 29                 |
| <div>GL1402</div>        | 2048 x 1<br>2048 x 3                    | 14.0 x 14.0            | 28.9 mm        | Global       | 69% (560 nm)                                  | 28.7         | 9.1                     | 69.9        | 12        | 81                 |
| <div>GL3504</div>       | 4096 x 2<br>2048 x 4                    | 3.5 x 3.5<br>7.0 x 7.0 | 14.3 mm        | Global       | 72% (570 nm)                                  | 9.4          | 4.9                     | 65.8        | 12/8      | 172.7              |
| <div>GL0402</div>      | 4096 x 2                                | 7.0 x 7.0              | 28.7 mm        | Global       | 76% (570 nm)                                  | 25           | 5.2                     | 65.6        | 12        | 200                |
| <div>GL7004</div>      | 4096 x 4                                | 7.0 x 7.0              | 28.7 mm        | Global       | 75% (560 nm)                                  | 10.5         | 4.3                     | 61.5        | 10        | 250                |
| <div>GL0816</div>      | 8322 x 16                               | 5.0 x 5.0              | 41.6 mm        | Global       | 70% (600 nm)                                  | 17           | 13                      | 62          | 11/10     | 200                |
| <div>GL7008</div>      | 8192 x 4                                | 7.0 x 7.0              | 57.3 mm        | Global       | 73% (530 nm)                                  | 10           | 6.8                     | 63.3        | 12        | 200                |
| <div>GL3516</div>      | 16384 x 2                               | 3.5 x 3.5              | 57.3 mm        | Global       | 57% (560 nm)                                  | 8.4          | 8.2                     | 60.2        | 10        | 120                |
| <div>GLT5009BSI</div>  | 9072<br>x<br>(256 + 32)                 | 5.0 x 5.0              | 45.4 mm        | TDI          | 82% (550 nm)                                  | 19.2         | 7                       | 68.7        | 12/10     | 608                |
| <div>GLT5008BSI</div>  | P1:<br>8208 x 256<br>P2:<br>8208 x 32   | 5.0 x 5.0              | 41.0 mm        | TDI          | 65.8% (266 nm)<br>94.2% (460 nm)              | 17.8         | 7.4                     | 67.6        | 12/10     | 1000               |
| <div>GLT5016BSI</div>  | P1:<br>16416 x 256<br>P2:<br>16416 x 32 | 5.0 x 5.0              | 82.0 mm        | TDI          | UV :<br>71% (266 nm)<br>VIS :<br>92% (436 nm) | 16.3         | 7.5                     | 66.1        | 12        | 500                |

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