X-RAY IMAGING

PROBLEMS =

- **Space**  Many photodiode sensors in a small area.
- **Form factor**  Not enough room for the many standard components required or current-to-digital conversion.
- **Cost**  Too high per channel with standard components.
- **Noise**  Routing of low-noise photodiode traces over long distances.
- **System performance**.

SOLUTION =

AEROFLEX PHOTODIODE INTERFACE ASICs

- **Highly-integrated** with high dynamic range, low noise, current-to-digital conversion on one chip.
- **Small form factor**  For example: 32 channels are only 9x9mm.
- **Low cost**  per channel.
- **Low noise**  Each channel has its own ADC with no analog signal routing.
- **Better system performance**  High resolution (up to 20 bits) with 16-17 bit accuracy.