



Applications Overview

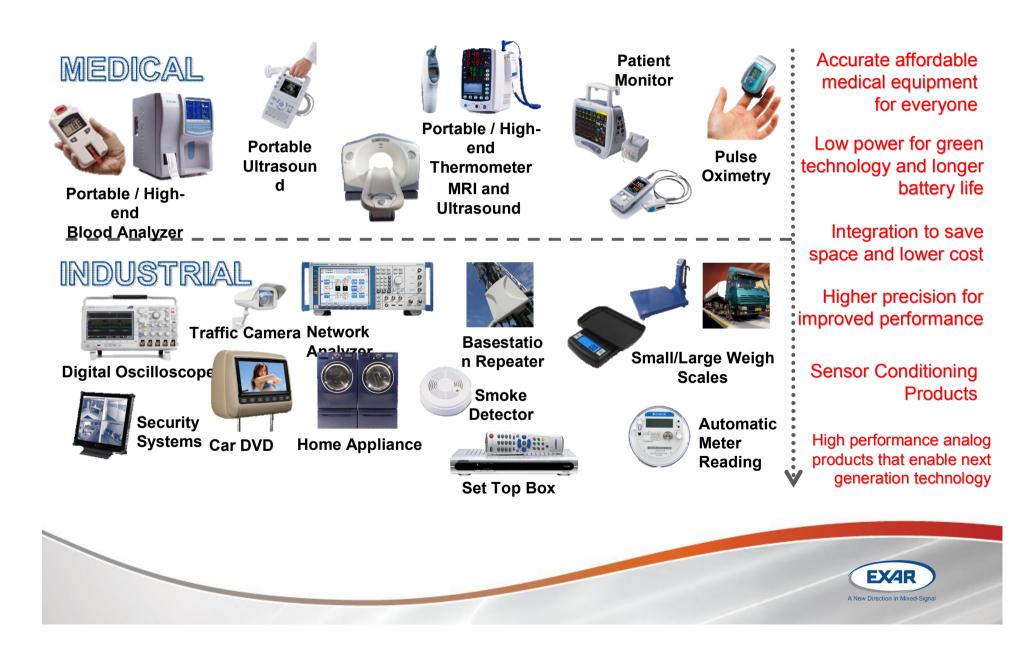
High Performance Analog

大盛唐电子集团有限公司 DST ELECTRONIC GROUP CO., LTD

www.szdst.com.cn

COMPANY CONFIDENTIAL

Broad Application Base



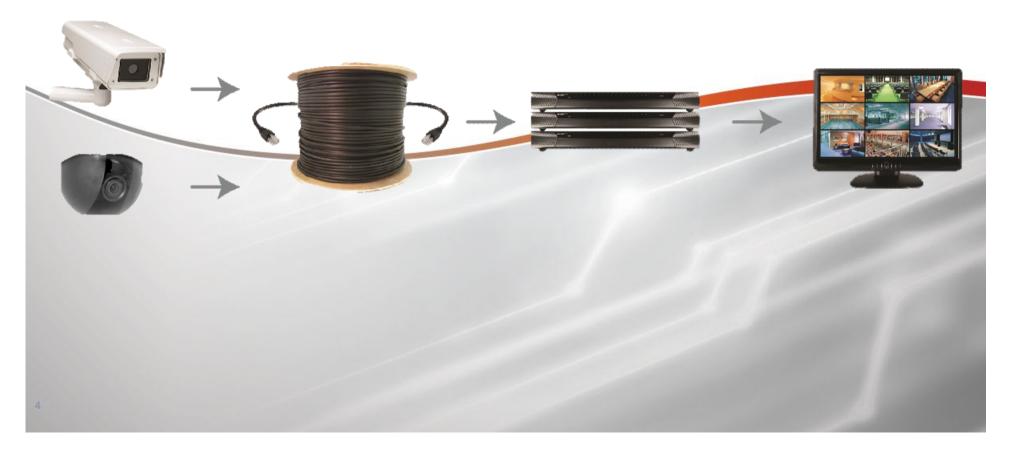
HPA Highlight Applications

- Battery ATE CLC1200
- Video Splitter CLC4601
- Barcode Scanner CLC2011/CLC4011
- Laser Parking System CLC1001/CLC1003/CLC2023
- Laser Range Finder CLC1004
- Wireless Phone Charger CLC2011 (Samsung Reference Design)
- E Whiteboard CLC2007
- Sensor / Transducer Interfaces CLC1200/CLC1001/CLC1002/CLC1003
- Motor Control CLC2011/CLC4011/CLC1003
- Video Surveillance CLC2000/CLC4601/CLC2005/CLC2007
- aCVi (HD Video Transmission) CLC2007/CDK3405/CDK2308
- Pro Audio CLC2058/CLC2059/CLC1003
- Medical Imaging/Monitors CDK8307/CDK3405/CDK3404

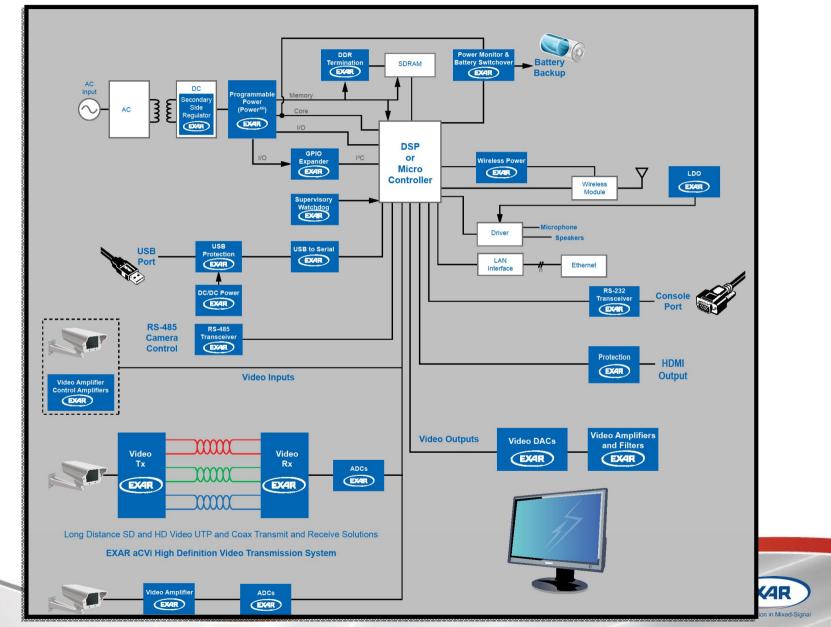




Video Solutions

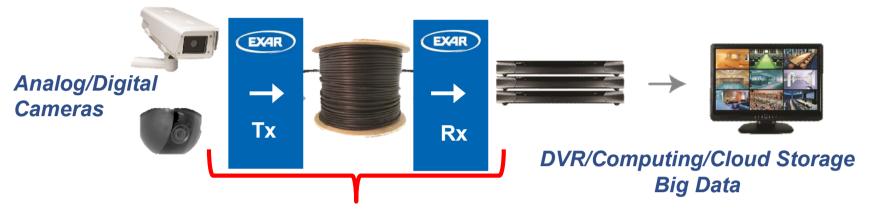


Video Surveillance total EXAR Solution



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Video Surveillance



- EXAR's Value to the System Application
 - Lowest Cost Highest Performance signal transmission
 - System Flexibility Widest variety of input/output devices
 - Supports both analog and digital cameras
 - Longest Cable driving solution in the industry
 - More secure than IP networked systems
 - Turn-Key reference designs Ready to Go!



Video Surveillance & Distribution



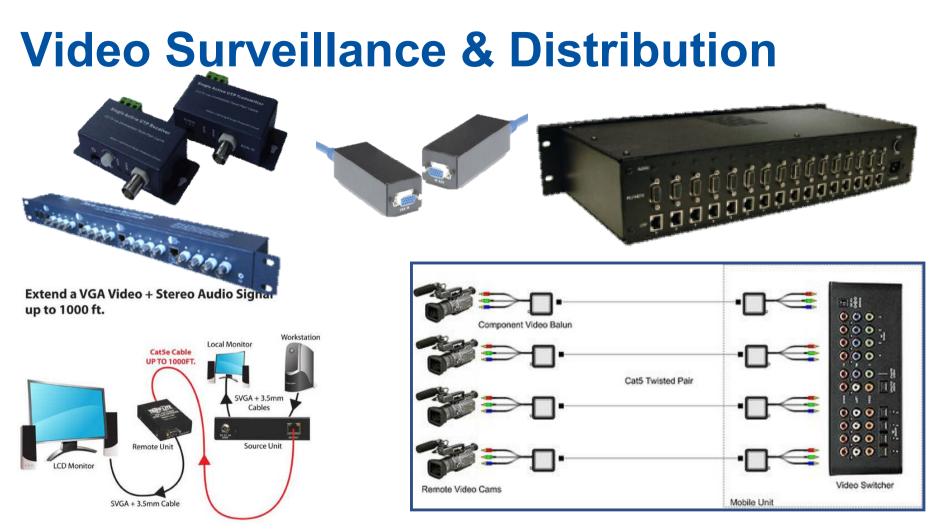
Residential

Industrial

Retail

vew Direction in Mixed-Sid

 EXAR's current solutions provide the critical transmit and receive components for a wide range of video surveillance applications and a wide range of video formats.

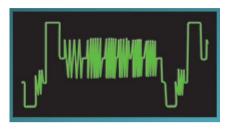


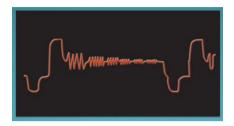
• EXAR supports a wide range of video, audio, and power distribution over twisted pair cable (Cat5e, Cat6...), coaxial, and video graphics adapter (VGA)cables.

A New Direction in Mixed-Signa

• EXAR supports a variety of end equipment in many form factors.

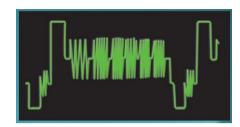
Video Surveillance Over UTP



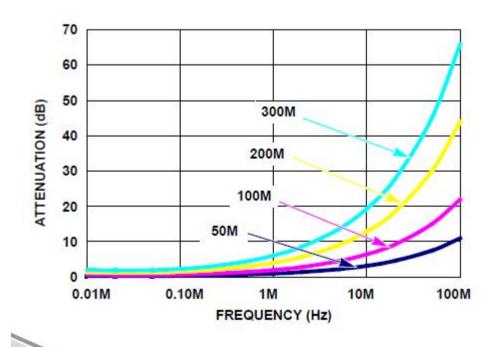




Via UTP



Equalization



- EXAR solves the signal loss associated with driving the low cost UTP (Cat5) cable.
- EXAR provides the industry's longest cable driving solutions up to 1800M
- EXAR analog solutions are superior to today's wired digital video transmission protocols due to:
 - Lower Cost
 - Longer Distance
 - More Secure
 - Better Image Integrity



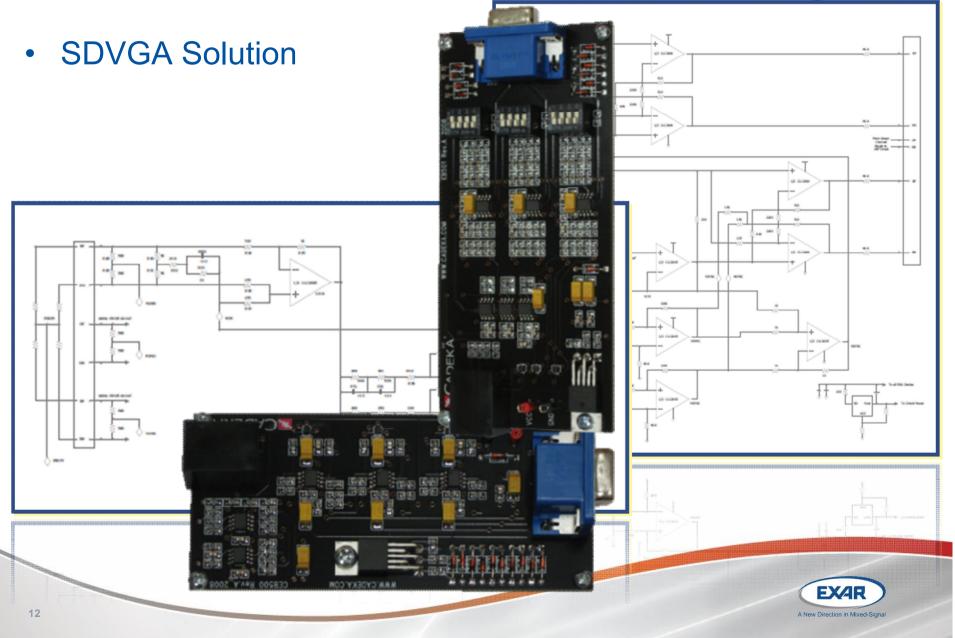
Video Surveillance Reference Designs

- EXAR provides a variety of reference designs using EXAR components.
 - Composite Video (CVBS) Transmitter (Tx) and Receiver (Rx) from 300M to 1800M (industries longest cable solution)
 - SDVGA Video Transmitter and Receiver for 300M
 - HDVGA Extender including audio and separate video sync in a single cable
 - SAG compensated CVBS and RS-485 compliant TX/Rx
 - Current Feedback based Receiver and Equalizer
 - CCTV multi circuit UTP transmission
 - ...
 - Custom solutions

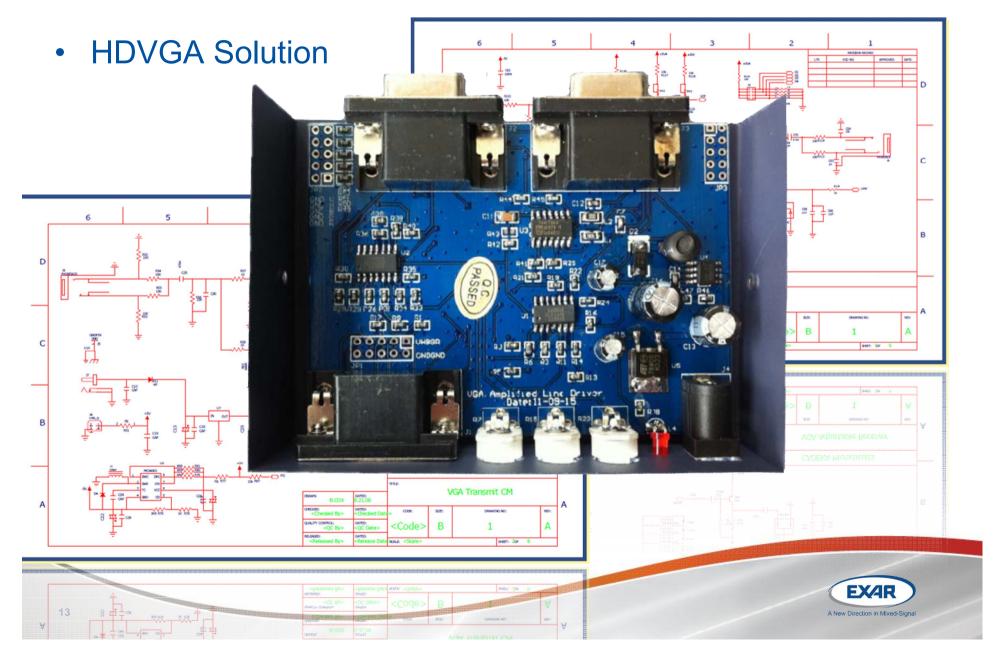


Video Surveillance Reference Designs 6 5 4 3 2 IM GOLING CVBS Solution C CADEKA <Title> LUU I Checked De Ownight Buy <00 Byp OC Date> в <Code> Calented Dr. see. 304 208. 33 OM PROPERTY OF 101030-00 10 8 8 10 F -oc al 0006: 8 SC Cette EX/AR 212 A New Direction in Mixed-Signa

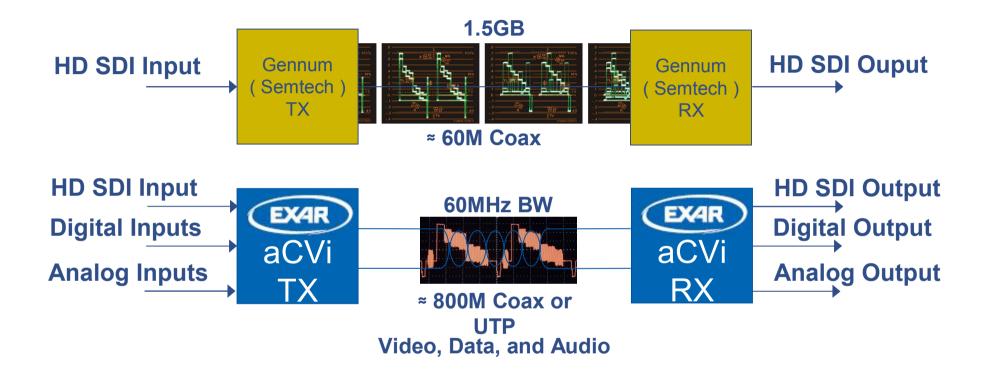
Video Surveillance Reference Designs



Video Surveillance Reference Designs



Video Surveillance Next Generation



Advanced Composite Video Interface





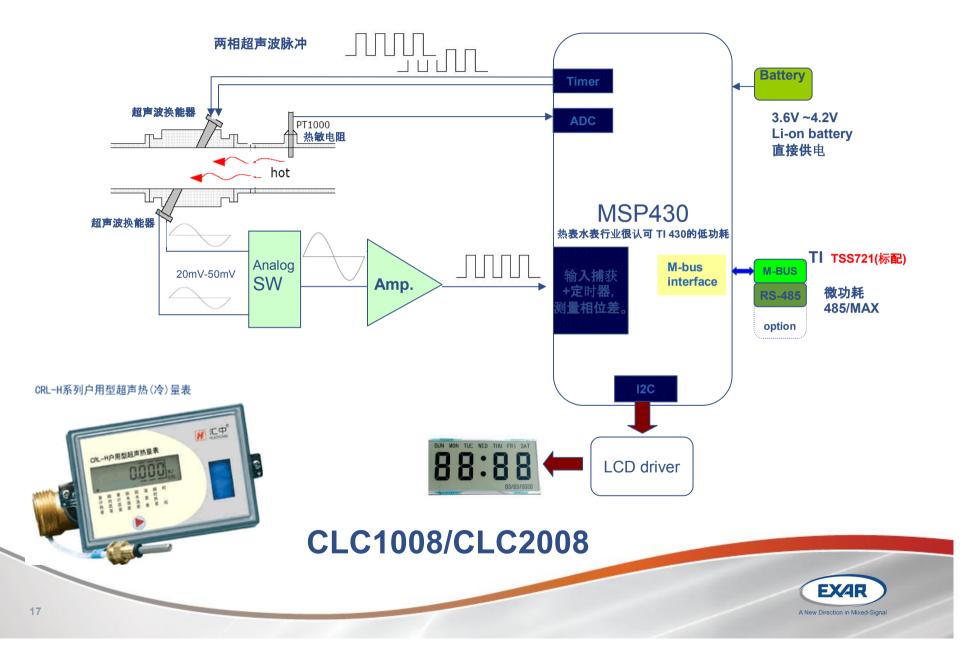
Industrial & Medical Solutions



Application Overview



Flow Meters



ECG

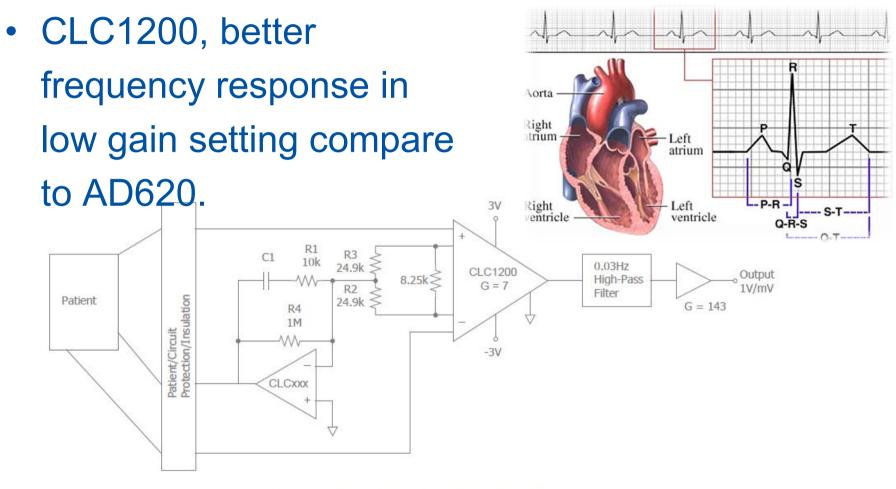
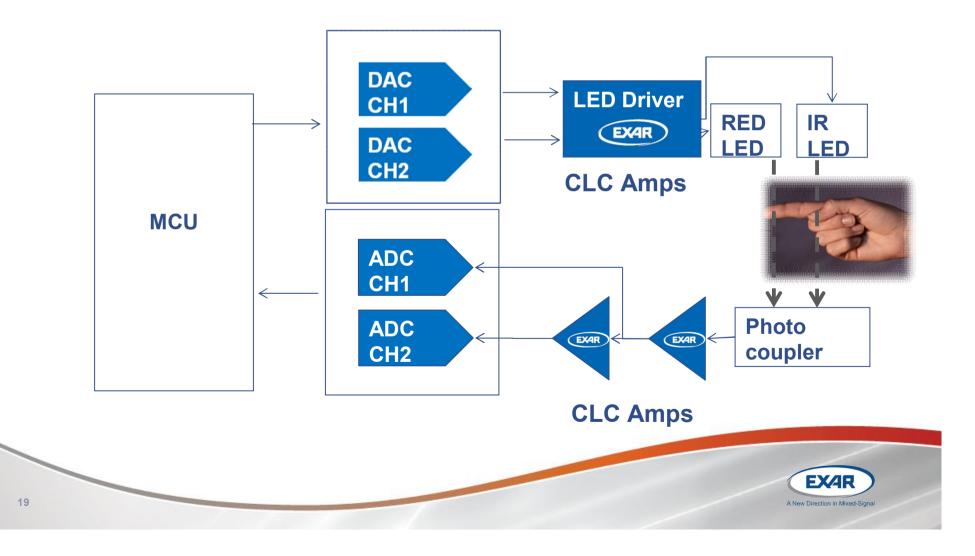


Figure 4: Typical Circuit for ECG Monitor Applications

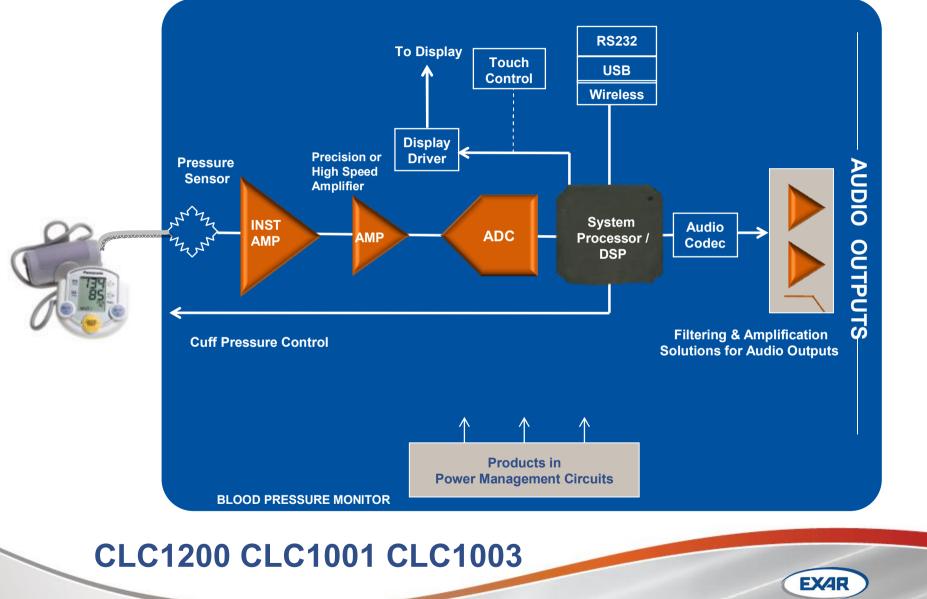


Pulse Oximetry

CLC2011 RRIO makes it easy to design Better linearity than CMOS OPAMP

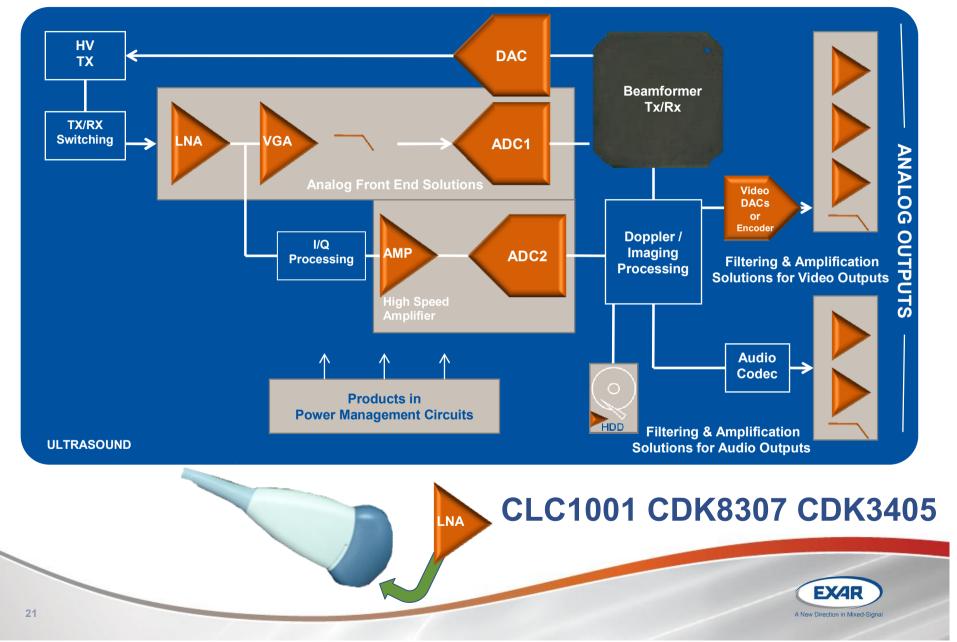


Blood Pressure Monitor

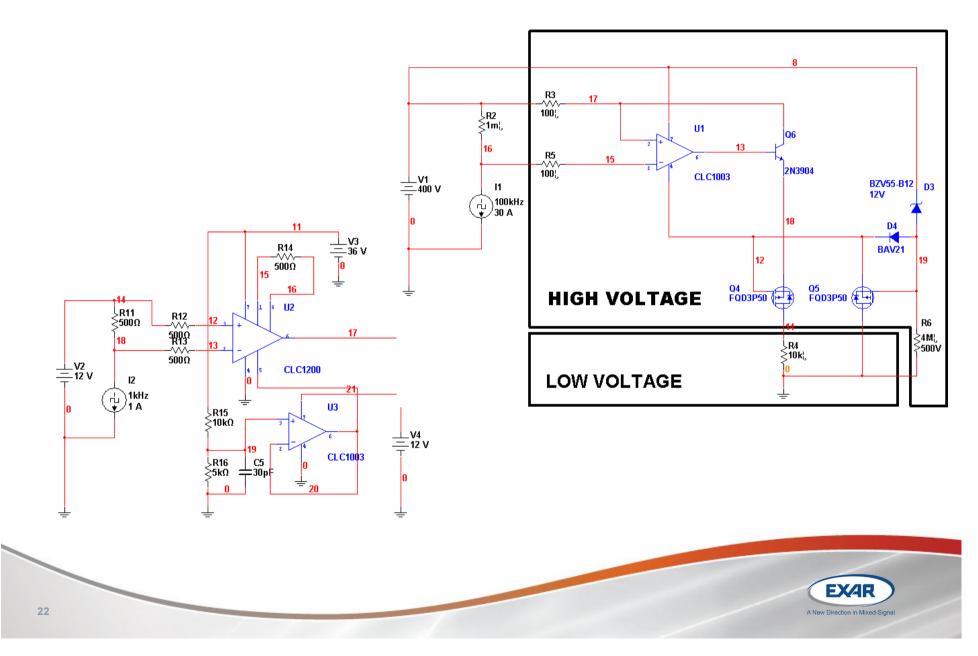


A New Direction in Mixed-Signal

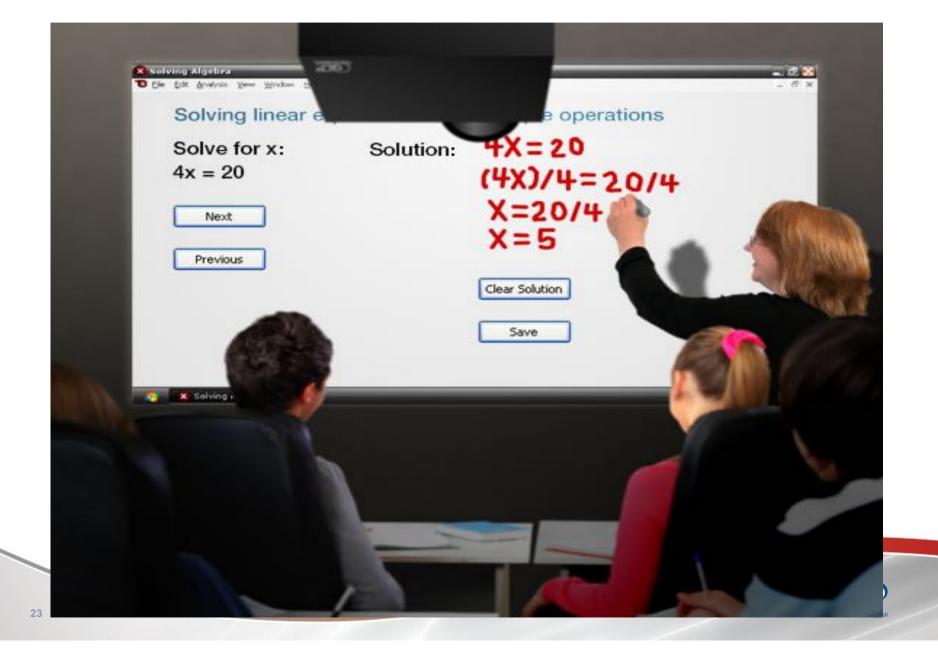
Ultrasound



Miscellaneous Precision Circuit Design

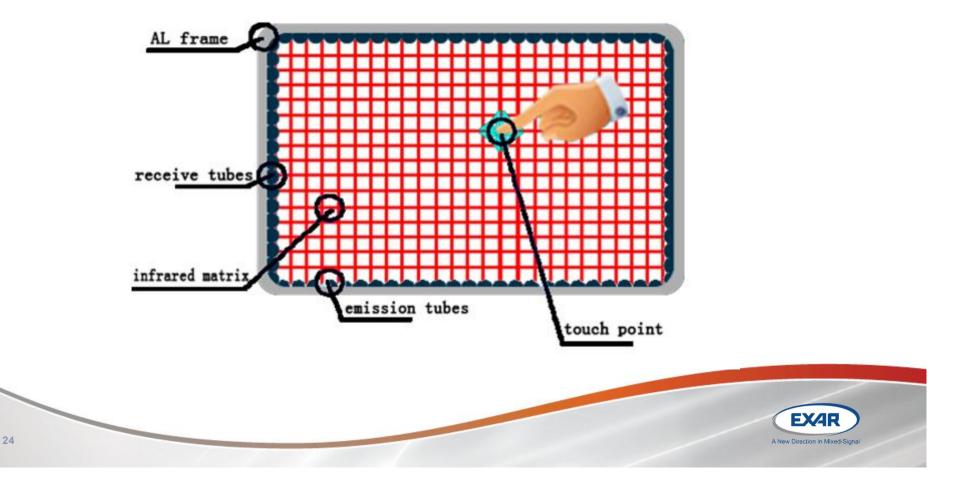


E - Whiteboard



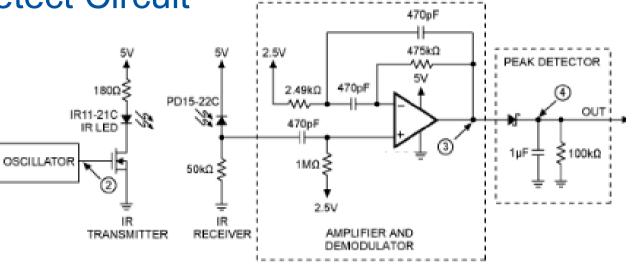
Infrared Scan EWB

- Principle: made of X, Y direction over the infrared matrix to detect and locate the user's touch area sensitively.
- Advantage: Touch by finger, no Touch Pen needed



Infrared Scan EWB

• IR Detect Circuit



Comlinear® CLC1003

Low Distortion, Low Offset, RRIO Amplifier

- ✓ 1mV max input offset voltage, 0.00005% THD, 5.4nV/√Hz noise
- ✓ 55MHz Bandwidth, 12V/us slew rate
- 2.5V-12V power supply, Input/Output Rail to Rail

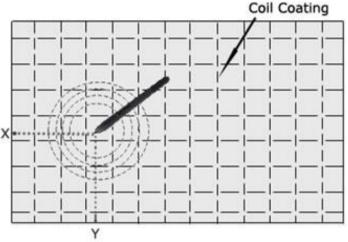


Electromagnetic pen-based EWB

 Principle: Locate position by detecting magnetic field intensity on antenna matrix and Pen



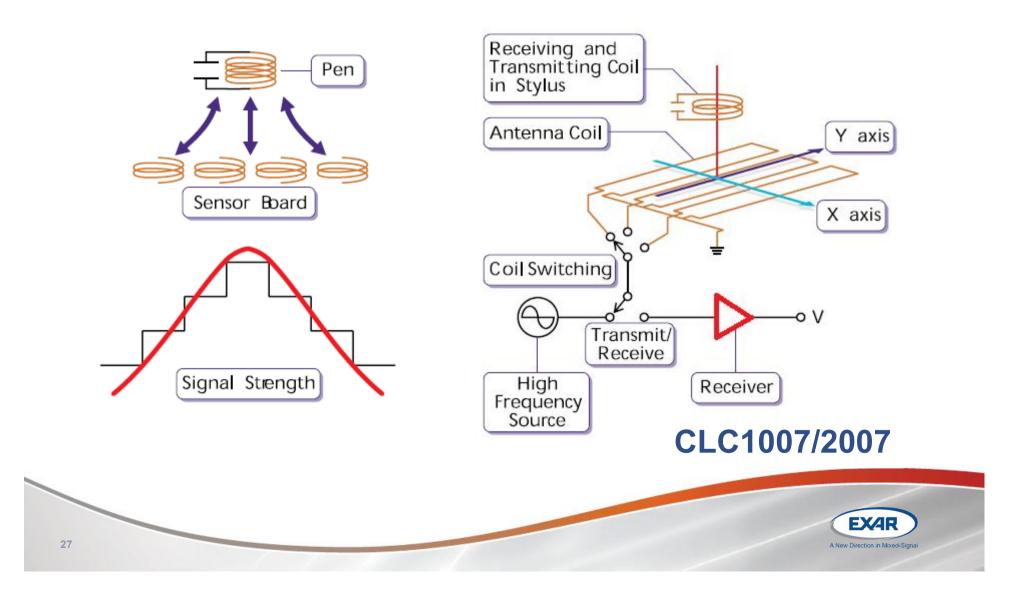
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- Advantages:
 - Fast response
 - High resolution



Electromagnetic pen-based EWB



Focus Parts / Applications

aCVI:

CLC4011 (x2), CLC4007, CDK1308, CDK3401, CLC2007, CLC2011

Precision Sensors CLC1200, CLC1003

Laser Range Finder CLC1004, CLC1001



Improved Replacements for popular high performance amplifiers and converters

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ADV7125 - CDK3405
FMS3818 – CDK3404
AD8052, AD8092 - CLC2007, CLC2005,
AD8052LV
AD8051, AD8091 – CLC1007
LMH6643 - CLC2007
LMH6644 - CLC4007
LMH6624, OPA847 – CLC1001
AD620A - CLC1200
```



Commodity Focus Products

Direct Replacements (just verify package offering)

LM358, LM2904 – CLC2050 LM324 – CLC4050 NJM4580 – CLC2059 NJM4558, MC1458 – CLC2058 FSUSB42 – CLCUSB42 FSUSB30 – CLCUSB30 SGM8622, FAN4274, LMV932, MCP6002, LMV358 – CLC2011 MCP6004 – CLC4011



Other Common High-Runners

Pin Compatible Replacements

OP275 - CLC2059 FMS6143, THS7314, THS7315, NCS2553, SGM9123 - CLC3800 ADS5282, ADS5218, ADS5272 - CDK8307 LMV922 - CLC2011 AD8032 - CLC2008 MAX4281 - CLC1009 MAX4282 - CLC2009 OPA337 - CLC1010 OPA2337 - CLC1010 AD8541, MAX4250 - CLC1010 AD8542, MAX4252 - CLC2010

Others...

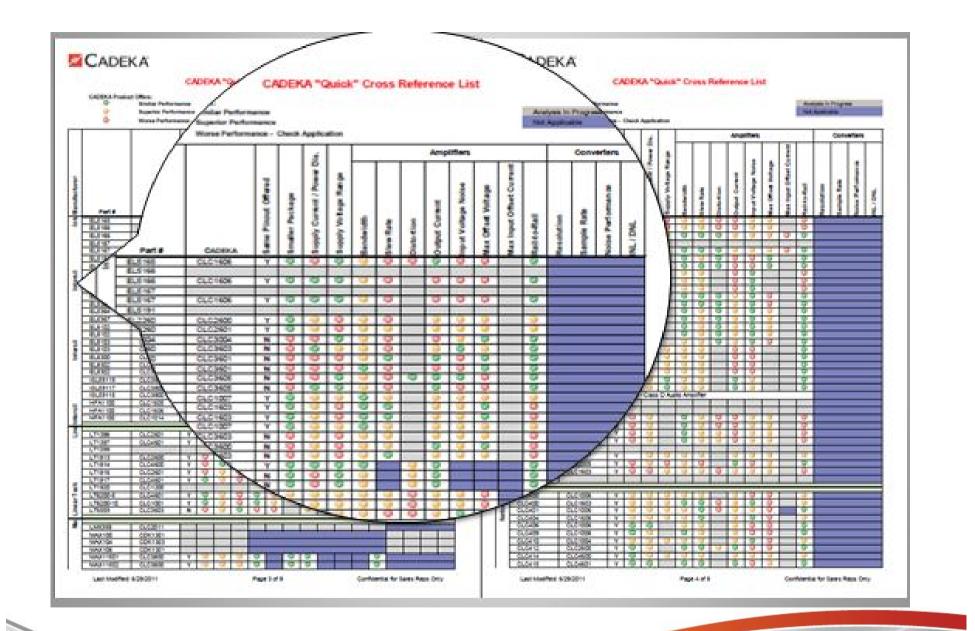
See Quick Cross Reference Guide



Success Stories

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Questions?





THANK YOU

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