



Alliance Group

N o r t h w e s t I n c .

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Effective Date: 1/2019

Challenge Electronics

www.challengeelectronics.com

Audible Products



- Battery Holders
- Magnetic and Piezo Buzzers & Transducers
- Panel Mount Piezoelectric Alarms
- Wide range of Speaker, Headsets ; MEMS & Condenser Microphones

E-Switch

www.e-switch.com

Switches



- PCB Switches include Rocker, Toggle, Push Button, DIP, Tact, Nav., Slide, & Tilt
- Panel Mount Switch offering of Rotary, Rocker, Push Button, Toggle, Keylock & Anti-Vandal
- Standard, Miniature and Subminiature Snap Action Switches
- Sealed, Lighted and Customization Options available for many series

Kycon

www.kycon.com

Connectors



- D-Sub, Mod-Jack, HDMI, USB, Mini-Din, Audio, & DC Power Jacks
- Full Line of I/O Connectors and Molded Cable Assemblies
- Mod Jacks: IP67, with or w/o Shielding, LED or Magnetics
- Mounting Options: Thru-Hole, SMT, Vertical, Right Angle, Upright & Mid-Mount

Mercury United

www.mecxtal.com

Crystals/Oscillators



- 20KH2-80KH2, Ultra Low Power, 1.0—3.3 Volt Operation Oscillators
- Ceramic SMD Crystal Filters
- Crystals, Clock Oscillators, VCXO's and TCXO's
- Full Line Mfg of Quartz Crystal Frequency Control Products
- Low EMI, Spread Spectrum Clock Oscillators

Macnica Display Portfolio/ FPGA

www.macnica.com/americas/products/displays/ortustech

ORTUSTECH

- Advanced Design for Compactness, Reliability, & Very Low Power Consumption
- Breakthrough “Blanview” Technology offers Sunlight Readable Display, Long battery life, Low heat Generating, & Exceptional Image Quality
- QVGA, WVGA, and HD Displays from 2.2” to 7”
- Touch Panels available with some models, Resistive and Capacitive, (PCAP)
- Operating temps –30C to +85C, several Wide temp models –40C to +95C

INNOLUX

- TFT Sizes ranging from 3.5” to 100”
- 5 Year Product Life Time Support
- Many models are available with a –30+85C Operating Temperature
- Narrow Bezel Technology offering of 3.5mm, 1.8mm and 1.0mm Bezels
- MVA and AASP Panel Technologies offer 178 Degree Viewing Angle and Best Color Reproduction

MACNICA

- TFT Sizes ranging from 1.33” to 15.6”
- Very Cost Effective, Low MOQ’s and Short Lead Times
- High Quality, High Contrast, High Resolution with Great Color
- Touch Panels and Custom Configurations Available
- Low Power Consumption

MPRESSION

- FPGA-Proven IP cores, Live Video Transport IP, Software Solutions & Machine Vision Development kit
- FPGA IP cores available for Sony SLVS-EC sensors, displays, graphics, industrial vision & highspeed communications/ networking applications
- Live Video Transport FPGA IP for SMPTE applications.
- Software Solutions for GeniCam and RTOS for IoTs
- EasyMVC Development Kit for Machine Vision Camera applications

