



COMPUTER CONVERSIONS CORPORATION

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SYNCHRO / RESOLVER / LVDT CONVERTERS / BUS CARDS / AMPLIFIERS ABSOLUTE ENCODERS / READOUTS

www.computerconversions.com

BUS CARD LEVEL PRODUCTS: SYNCHRO / RESOLVER / LVDT I/O

VME Bus

Synchro / Resolver / LVDT I/O

Inputs: 1 - 12 Channels Synchro / Resolver, & 2-3 Wire LVDT Formats, B-I-T & Forced Angle Self-Test Mods., VBT True Wrap-Around Self-Test. To 16 Bits, acc. 2', Tracking Rates to 200RPS. On-Board AC Reference options, Low cost Solid State and 100% Transformer Isolated models.

Outputs: LVDT/RVDT 1-12 Chan.s Synchro/Resolver: 1-4 Channels, high power, output, drive 1.2 to 5VA, Low Cost +/-12V. DC Bus powered & Reference Powered Converters. Transformer Isolated I/O. Resolution: 14/16 Bits, accuracy 2/ 4'.

All: A24/D16 6UH. Multispeed I/O, & Mix & Match all I/O. 0 - 70 & -40 to +85C. Conduction Cooled avail.



PC104 Bus

Synchro / Resolver / LVDT I/O

Inputs: 1 - 4 Channels Synchro / Resolver and LVDT inputs with B-I-T and Forced angle Self-Test, Transformer Isolation opt.even on 60Hz.

Models., 16 Bits, 2'.acc.Tracking Rates to 200RPS. Ultra Reliable and quick delivery. AC Reference Supply options.

Outputs: 1-2 Channels Synchro / Res. Low cost & Isol. mod's. 16 Bits, 1 - 4' acc. Loss detect, support for external Boosters upto 300VA. including Disable control & BIT / Fault Report.

All: No Violations, 0 - 70 and -40 - +85C models. Software Demo w/

PCI & COMPACT PCI

All Plug and Play, with Software DLL's, PCI Same Selections as on ISA Bus, CPCI Same Selections as on VME Bus. 3&6U

ISA Bus

1-8 Inputs, Upto 4 High Power Output Channels, Transformer Isolated. (other features etc. same as VME above left.+ Soft-Pack)

STD Bus, & STD32

Inputs: 1-2 Channels Synchro / Resolver / LVDT I/O. 16 Bits to 200RPS, Includes Incremental Encoder outputs & AC Reference Supply, & Isolation options.

Outputs: 1 Synchro / Resolver ,

All: Bus Powered, Low Cost, I/O & Mem.add'g, Byte swap.



Stand-Alone

Small PC104 Size, For Absolute Position -ing with any Motion Controllers Incremental Encoder Input port; & Synchro / Resolver Inputs. User strobe input causes a burst of absolute data followed by a seamless transition to Real-Time incremental w/ report. 1-2 and 4 Axis.

Other Bus Functions Available: Absolute Encoder Sub-Systems w/ Multiturn Resolver Position Sensors, Solid State Synchro / Resolver Control Transformers and **Active Synchro Control Differentials SCDX**, AC/DC Sin/ Cos. Vector Generators, Digital Demodulators, Sin/Cos and Synchro Dynamic Rotators, Incremental Encoder Outputs, Multispeed Synchro / Resolver I/O

Synchro / Resolver Bus Card ACCESSORIES:

- Single & Multiturn Resolver Position Sensors
- Synchro Booster Amplifiers and Repeaters
- Precision External AC Reference Supplies
- Angle Indicators and Synchro Simulators

Universal Resolver-Based, Absolute Encoder Systems for PLC Inputs

Dependable, Industrial Grade, High Speed Synchronized Input into virtually any Programmable Control:

SNAPTRAK SERIES™

Resolution: 8 - 16 Bits, to 65536 parts/turn
Outputs: BCD, Binary or Gray Code, & Quad.
High Noise Immunity
-55-+125C Oper. Temp.
1000' Long Cables
No Fragile Optics
High Shock & Vibration
PLC Interface. Also 4-20ma., and DC out units



TRACK II ENCODERS™



Singleturn & Differentials, BCD/BIN/Gray

- +24VDC POWER INPUT
- Jumper set Logic: 5,15 & 24VDC, Source/Sink.
- Position Status LED's .
- **Lights-Out-Zero™** Remote ABSOLUTE ZERO SET, outside of PLC logic.

MULTITRACK SERIES™

MULTITURNS, 16 Bits 10,36,64,128 Turns H.S. Increm. Out's. too.



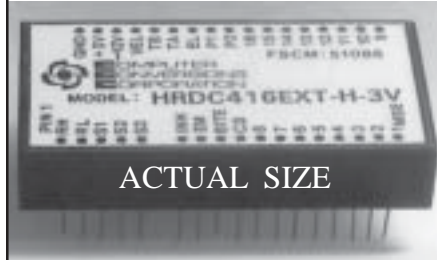
Your Ultimate Source for SYNCHRO, RESOLVER, & LVDT CONVERTERS

SYNCHRO / RESOLVER to DIGITAL

DIGITAL to RESOLVER SIN/COS

DIGITAL TO SYNCHRO / RES.

HSDCST/XT Series: Miniature "WHOLE" Synchro / Resolver to Digital Converters:



Low cost solid state or Transformer Isolated Signal and Reference (XT models). Programmable Resolution 10 - 16 Bits, Hi/Lo Enables for 8 and 16 Bit bus w/latch, Accuracy - 2', Track - 200RPS, 2-115V Ref. 1-90V. Signals, 47 to 10K Hz, BIT / Loss out, and 3 angle force test. 0-70°C and -40-+85°C models, +5 and -12V. DC supplies, No external parts req'd. Small Std. triple dip package, 1.125 x 2.125 x 0.43"H.

Industry Standard Synchro / Resolver Converter Modules: 2.6 x 3.1" standard pin-outs, low cost solid state & Transformer Isolated units, 10-16 bits, Commercial, Industrial, & Mil. Temp., Also: Dual S-D's, R-D's, & 2 or 3 wire feedback LVDT to Dig., & units w/Reference Out.

SR10/11 Series AC Reference Supplies: 26VAC / 115V. @ 400Hz, 1.2-5VA, Isolated.

HDRL Series: Miniature Digital to Resolver Sin/cos Converters.



Low cost, Small 1.6 x 2.2 x 0.43"H package. 2-115V., 47Hz. to 3KHz. Internally Transformer Isolated reference input, 16 Bit Resolution / databus, Data Latch Enable, Accuracy +/- 2', 1-6V. L-L Sin/Cos Resolver outputs, 47 to 3K Hz., +/-12 & +5VDC power, 0 - 70°C & -40 -+85°C models, quick assured delivery. Less expensive than hybrids.

OTHER CONVERTERS & Functions:

- Synchro / Resolver to Linear DC
- DC to Synchro / Resolver Outputs
- SCDX Synchro Control Differentials
- SCT Solid State Control Transformers
- Synchro / Resolver to BCD Converters
- Multispeed Synchro / Resolver - Digital
- Synchro/Res. to Incremental Encoder
- Second Source for most all Synchro Converter Modules from: Analog Devices Inc. (ADI), ILC/DDC, & Natel

DSL / DRL Series Digital to Synchro / Resolver "WHOLE" Converters:

Low Cost Industry Std. 2.6 x 3.1 x 0.52"/.6"H. Transformer Isolated Reference & out's., Virtually Indestructable Outputs. Accomodate grounded stators, drives 1.2. 1.5, to 5VA. Freq. 47 to 10K Hz., 2-115V Ref./1-90V.L-L signal outputs. +5 & +/-12 or +/-15VDC power, 10-16 Bits, to 2' acc., 0-70°C, -40-+85°C, & -55-+105°C models.



DSP Series Reference Powered, Digital to Synchro Converters, Transformer Isolated, 115/90V. 400 & 60Hz. Option, 400Hz. models drive 4.5VA., 60Hz. models Drive 1.5VA loads direct and do not require any external 60Hz. Transformers. 14 Bits, +/- 4' acc., Powered off the 115V reference input, No power supplies required, very high efficiency, low heat dissipation. Output V.L-L not effected by load

Synchro / Resolver ANGLE INDICATORS: AIT Series Low Cost .1 and .01° Readout, +/-179.9° Bi-polar units, Small Panel Mount Package & great for field test apps. Bright .56"H LED Characters, BCD or RS232 Data Ouputs. Multispeed Units see AITM series.

HIGH POWER SYNCHRO BOOSTER AMPLIFIERS

Wide Model Selection: Any Synchro load, 15 to 300VA AC Reference Powered, built-in +5V. Supplies. Combination 60 & 400 Hz. Units. Disable Input and B-I-T output, Virtually Indestructable Outputs. No Fans, Conduction Cooled Bulkhead Mount.



ABSOLUTE ENCODERS, READOUTS, PROGRAMMABLE LIMIT SWITCHES, RESOLVERS

PROGRAMMABLE ELECTRONIC LIMIT SWITCHES

Model PLS1000: features Single or Multiturn Resolver type absolute position feedback, 16 output cam switch type functions, multiple on/off's, timers, parts counter, 10 - 100 programs, RS232 serial I/O & Soft-pack, adjust while in motion, bright display, speed limits, and 5 speed auto-advance. Fast 5 Usec.



Absolute Encoders w/ Readouts & / or Interface: (TDS Series)

Electronically Passive Size 11, or Heavy Duty NEMA 12 Sensor, w/ decoder, readout & offset options, outputs: Binary, BCD, RS232, DC, TTL or open collectors, PLC I/O and scaling, small panelmount decoder, PC card, and multi-channel Rack-mount variations w/ DC or 115VAC power.



Size 25 Absolute Encoder (Shaft-Tracker™) Selections:

Ultra-Reliable, Robust & Optic-Free Electromagnetic Encoders, Models w/ Burst Absolute & Seamless Incremental, Absolute DC & 4-20ma., SSI & Quad., preset Limit Switch's, Binary, BCD, or Graycode, Differential line drivers or open collectors, 24VDC power.



MULTITURN ABSOLUTE ENCODERS / SUB-SYSTEMS & MULTITURN RESOLVER SENSORS

10, 36, 64, 100, & 128 turns. option'l odd ratios for cyclic app's., & upto 1024 turns. Small size 23 servo mount or Heavy Duty Flange mount w/integrally-isolated floating shaft assy. for overhung loads. Robust, High Reliability, High Noise Immunity, Wide Temps., Long Cables, Withstand High Shock & Vibration. Available w/ Readouts or as sub-systems w/ various interface cards, remote offset controls, wide assortment of interface cards, Binary or Scaled BCD outputs, Linear DC, PWM, SSI., & w/incremental for easy absolute retro-fits. True Absolute; position data retained even if moved / coasting during / following power outage.



STOCK BRUSHLESS RESOLVER POSITION SENSORS:

Size 11, 15, 18, 23, shafted, Size 21 Through Shaft Pancakes, MULTITURNS, HEAVY DUTY, NEMA 12/ 4, Size 25 Flange or Servo Mount Sealed units, High-Temp., Explosion-Proof, Radiation Resistant, Submersible and w/ motor packs.

