

- Available on VME64x and PCI bus architectures
- Both measurement and simulation functions on single module
- Boards available in two combinations
- Combination I - 2 Channels of Synchro/Resolver-to-Digital & 6 Channels of Digital-to-Synchro/Resolver on one board
- Combination II - 4 Channels of Synchro/Resolver-to-Digital & 4 Channels of Digital-to-Synchro/Resolver on one board
- Common On-board Oscillator for reference signal generation

MEASUREMENT FUNCTION

- Internal Synthesized Reference
- Software programmable 10-, 12-, 14- or 16-bit resolution
- Input amplitudes: 2 Vrms L-L, 11.8 Vrms L-L, or 90 Vrms L-L
- Incremental Encoder Emulation or Velocity Output
- Transformer isolation for all input channels

SIMULATION FUNCTION

- Output Amplitudes 11.8 Vrms L-L for Synchro or Resolver for Simulation function
- Optional Transformer Isolation
- Programmable Two Speed Ratio
- DLLs and Libraries for Windows 98/2000/NT for PCI version
- Software driver support for VxWorks and LynxOS available for VME modules
- 0°C to 70°C Standard Operating Temperature

OVERVIEW

The ATS-YYY-SRC series of products provide fully independent Synchro/Resolver-to-Digital and fully independent Digital-to-Synchro/Resolver channels. These are available both as a PCI bus add-on card and as a 6U VME64x module. Each channel is implemented using DDC converters. A common on-board oscillator eliminates the need for an external reference oscillator. Transformer isolation is available on-board for measurement channels while it is optional for simulation channels. The boards are available in two combinations. One combination provides 2 measurement (Synchro/Resolver-to-Digital) channels and 6 simulation (Digital-to-Synchro/Resolver) channels on one board. The second combination provides 4 measurement (Synchro/Resolver-to-Digital) channels and 4 simulation (Digitalto- Synchro/Resolver) channels on one board. The ATS-YYY-SRC S/R-D outputs can be used as Synchro/Resolver simulator to test the equipment, which has Synchro/Resolver interface in it. The ATS-YYY-SRC D/S-R interface feature is useful for angular measurement applications.

HARDWARE

The module is capable of accommodating most military voltages; e.g., 11.8, or 90 Vrms @ 400 Hz. This architecture allows for minimum board count to achieve the maximum functionality in systems that require precision positioning, control and stabilization. Each input channel of S/R-D is independent and maybe configured as either a synchro or resolver input using on-board jumpers. Each output channel of D-S/R is independent and maybe configured as either a synchro or resolver output using on-board jumpers.

ATS-YYY-SRC

Synchro/Resolver Measurement and Simulation Modules

Software

The ATS-YYY-SRC software includes:

- Virtual Instrument Panels
- Drivers & APIs

Virtual Instrument Panel

The ATS-YYY-SRC card comes with a "Virtual Instrument Panel" providing interactive control of Synchro/Resolver features. The control interface appears on the computer display & user manipulates these controls with a mouse/trackball or keyboard. The purpose of Virtual Instrument panel is to help the user (mostly system integrators) to quickly setup & use the card, just like a stand-alone instrument with physical front-end knobs, controls & display without getting into programming intricacies.

Drivers & APIs

The ATS-YYY-SRC card comes with a powerful set of library functions to access the Synchro/Resolver functionality. The drivers are designed in a modular fashion consisting of component functions & application functions. The user's test program can be developed with a few calls to the card driver, by using the set of application functions provided.

Drivers and high-level API libraries for Windows 98/2000/NT are provided for the PCI card while driver support for VxWorks and LynxOS is available for the VME module.

PRODUCT SPECIFICATIONS

Synchro/Resolver to Digital

Channels	:	Up to 4 channels
Resolution	:	Programmable 10-, 12-, 14-, 16-bit
Accuracy	:	2 arc-min
Inputs	:	Jumper selectable S/R inputs
Reference	:	Separate external reference for each channel
Speed	:	Programmable speed ratios
Frequency	:	400 Hz

Digital to Synchro/Resolver

Channels	:	Up to 6 channels
Resolution	:	16-bit
Accuracy	:	1 arc-min
Outputs	:	Jumper selectable S/R signal outputs
Isolation	:	Optional Transformer isolation
Speed	:	Programmable speed ratios
Frequency	:	400 Hz
Output Drive	:	1.2 VA

Others

- Rear I/O connectivity option provided for VME module
- Wrap around self test provided
- Built-in tests for all I/O channels provided

Software Support

- Driver support for VxWorks and LynxOS available for the VME modules
- Windows 98/2000/NT, Linux, RT-Linux driver support available for PCI cards

Physical

VME	:	VME64x, 6U size
Dimensions	:	233 x 160 mm
PCI	:	Full Length PCI card
Dimensions	:	313 x 100 mm

Environmental

- Operating Temperature: 0°C to +70°C
- Storage Temperature: -40°C to +70°C

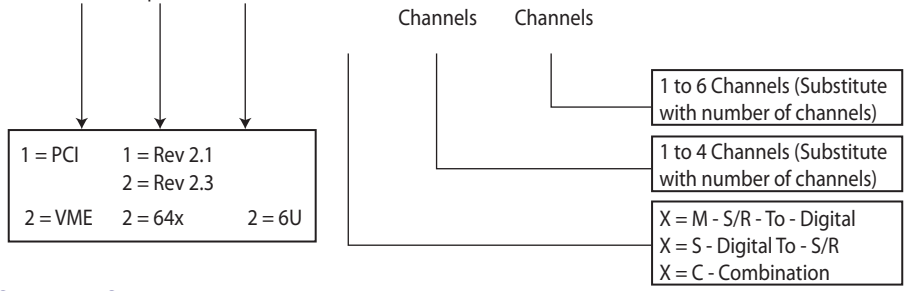
Warranty

1 year limited warranty

ORDERING INFORMATION

Hardware Selection

ATS - Platform - Spec - Form Factor - SR X - Measurement - Simulation



Software Selection

Operating Systems / Environments Support

- ATS-WIN-SRC Windows 98/2000/NT platform support
- ATS-VXW-SRC VxWorks platform support
- ATS-LYN-SRC LynxOS platform support

For additional OS support, please contact sales department



Anuva Technologies Pte Ltd
No. 6, Eu Tong Sen Street, The Central, #07-16, Singapore 059817

P +65 6221 8260 F +65 6221 7820

www.anuvatechnologies.com

Distributor/Reseller