

Digital to Synchro/Resolver Converters

| Series | Resolution | Accuracy | Tracking | Input | Dimensions | Description/Features |
|--------|------------|---------------------------|--|-------|--|--|
| DS2XX | 14 bits | ± 3.0' | 10 (sin/cos) V DC-2600Hz | 5.0mA | 2.6 x 3.1 x 0.4" | Industry standard high accuracy digital vector generator with 0.1% scale factor variation. |
| DSS7XX | | ± 4.0' | 11.8V Synchro 6.8V Resolver 50-400Hz | 1.5VA | 2.0 x 2.0 x 0.4" | Micro-module D/S-R with current limiting and thermal protection. Requires external transformers for 90V output. |
| DSS8XX | ±6.0' | 2.6 x 3.1 x 0.8" | | | | Industry standard pin-out. |
| DS00X | ±8.0' | | Synchro/ Resolver 11.8/90V 50-400Hz | 4.5VA | 2.6 x 3.1 x 0.5" | ±12V version of 192L700/800 |
| DS4XX | ±4.0' | 2.6 x 3.1 x 0.8" | | | | |
| DS70X | 12 bits | | ±6.0' | 5.0VA | 2.6 x 3.1 x 0.8" | Industry standard pin-out with "kick circuit", allowing for use with torque receivers. |
| DS80X | | ±8.0' | 2.0 x 2.0 x 0.6" | | | |
| DS81X | ±4.0' | 11.8V Synchro 50-400Hz | | 25VA | 7.4 x 5.1 x 2.7" (60Hz) 7.4 x 5.1 x 1.9" (400Hz) Bulkhead Mounted | Reference powered with fully protected outputs capable of driving multiple torque receiver loads. All inputs and outputs are isolated. Microprocessor compatible with double buffered binary angle inputs. |
| DS71X | ±6.0' | | 11.8V Synchro 50-400Hz | | | |
| DS50X | ±4.0' | 11.8V Synchro 50-400Hz | | 25VA | 7.4 x 5.1 x 2.7" (60Hz) 7.4 x 5.1 x 1.9" (400Hz) Bulkhead Mounted | Reference powered with fully protected outputs capable of driving multiple torque receiver loads. All inputs and outputs are isolated. Microprocessor compatible with double buffered binary angle inputs. |
| DS6XX | ±6.0' | | 11.8V Synchro 50-400Hz | | | |
| DS01X | ±8.0' | 11.8V Synchro 50-400Hz | | 25VA | 7.4 x 5.1 x 2.7" (60Hz) 7.4 x 5.1 x 1.9" (400Hz) Bulkhead Mounted | Reference powered with fully protected outputs capable of driving multiple torque receiver loads. All inputs and outputs are isolated. Microprocessor compatible with double buffered binary angle inputs. |
| DSS9XX | ±2.0' | | 11.8V Synchro 50-400Hz | | | |
| DSA5XX | ±4.0' | 11.8V Synchro 50-400Hz | | 25VA | 7.4 x 5.1 x 2.7" (60Hz) 7.4 x 5.1 x 1.9" (400Hz) Bulkhead Mounted | Reference powered with fully protected outputs capable of driving multiple torque receiver loads. All inputs and outputs are isolated. Microprocessor compatible with double buffered binary angle inputs. |

Single-Speed Tracking Synchro/Resolver Signal to Digital Converters

| Series | Resolution | Accuracy | Tracking | Input | Dimensions | Description/Features | |
|----------|--------------|----------|----------------------------|-----------------------|--|--|---|
| SD2XX | 14 bits | ±5.2' | 10rps | 2.5-130V 50-1200Hz | 2.6 x 3.1 x 0.4" | Low profile, industry standard pin-out. Velocity output option. Synchro or resolver input. | |
| SD0XX | 10 bits | ±30.0' | 70rps | | | | |
| SD3XX | 12 bits | ±8.5' | 30rps | | | | |
| SDD332XX | 12 bits | ±8.5' | to 50rps | 2.5-130V 50-2600Hz | 2.6 x 3.1 x 0.4" | Synchro/resolver inputs. 3-state latched outputs with 8 bit or 12 bit addressing and velocity output. | |
| SD333XX | | | | | | Synchro or resolver inputs. 3-state latched outputs. Second source for Analog Devices SDC/RDC1725. | |
| SDS30X | | | to 100rps | 2.0 x 2.0 x 0.4" | Synchro/resolver inputs. Direction, ripple clock, inter-LSB, demodulator and velocity outputs. | | |
| SDS31X | | | 100rps | | 2.5V 2.5-10KHz | Resolver input for inductosyn applications. Direction, ripple clock and velocity outputs. | |
| SDS32X | | | to 50rps | | 2.5-130V 50- | Low power version of 268A300. | |
| SDS33X | | | to 100rps | | 2.5-130V 50- | Synchro or resolver inputs. +5V only with 3-state latched outputs. Direction and ripple carry outputs. | |
| SDS34X | | | 1024 cycles 4096 counts | | 100rps | 2.5V 1.0-5KHz | Resolver input with A quad B+Z outputs. Programmable output resolution, resolver excitation oscillator. |
| | | | | | | | |
| SRD10X | 14 bits | ±4.0' | to 20rps | 2.5-130V 50-5000Hz | 2.0 x 2.5 x 0.5" | Synchro or resolver inputs. 3-state latched outputs. BIT, velocity, loss of reference and signal outputs. | |
| SRD00X | | ±2.6' | | | | | |
| SRD11X | 16 bits | ±1.3' | to 5rps | 2.5-130V 50-2.5- | 2.6 x 3.1 x 0.4" | Synchro or resolver inputs. 3-state latched outputs. Bit, velocity, loss of reference and signal outputs. Synthesized reference for improved accuracy. 168H300 incorporates two programmable bandwidths. | |
| SD83X | | | | | | 130V 50- | |
| SD7XX | 3 decade BCD | ±1.0° | 10rps | 2.5-130V 50-1200Hz | 2.6 x 3.1 x 0.8" | Industry standard synchro or resolver to BCD converter (0° - 359.0° <u>or</u> 0° - ±179.0° output range) | |
| SD6XX | 4 decade BCD | ±0.2° | | | | Industry standard synchro or resolver to BCD converter (0° - 359.9° <u>or</u> 0° - ±179.9° output range) | |
| SDS6XX | | | | | | 2.0 x 2.0 x 0.5" | Synchro or resolver inputs with two programmable output ranges, either 0° to 359.9° or 0° to ±179.9°. |

Two-Speed Tracking Synchro/Resolver to Digital Converters

| Series | Resolution | Accuracy | Tracking | Input | Dimensions | Description/Features |
|----------|------------|----------|----------|-----------------------|------------------|---|
| SDHD330X | 16 bits | ±20" | to 3rps | 2.5-130V 50-3000Hz | 2.6 x 3.1 x 0.4" | 3-state latched output version of the 168M500. |
| SDHD333X | | | | | | 3-state latched output. BIT, velocity, loss of reference and signal outputs. 1:8, 1:16, 1:32, 1:36, 1:64 |
| SDHD000X | 20 bits | ±4" | 1/3rps | | 2.6 x 3.1 x 0.5" | 3-state latched output. Synthesized Reference allowing for operation with multi-pole synchro and resolvers. |

SSCT and SSCDX Converters

| Series | Resolution | Accuracy | Tracking | Input | Dimensions | Description/Features |
|---------|------------|----------|--|--------------------------|--|--|
| SSCT3XX | 12 bits | ±6.0' | Synchro/ Resolver 11.8/90V 50-400Hz | $\sin(-\theta)$ 0.4V | 2.0 x 2.0 x 0.4" | SSCT with demodulated output error signal. |
| SSCT1XX | 14 bits | ±4.0' | | $\sin(-\theta)$ 0.4V | | 2.6 x 3.1 x 0.8" |
| SCDX1XX | 13 bits | ±6.0' | | Synchr o/Reso lver | Transformer isolated SSCDX with 3VA output. NOTE: 60Hz requires external transformers. | |