

## General description

CSI digital to synchro/resolver converters range from low to medium power encapsulated modules designed for printed circuit board mounting to high power bulkhead mounted devices. Natural parallel binary angle data is converted accurately to either 3-wire synchro or 4-wire resolver signals. Output power levels ranging from 1.5VA to 125VA are available.

### Digital to synchro/resolver converters

Series	Resolution	Accuracy	Output	Drive	Package	Description/Features
192B200	14 bits	± 3.0'	10(sin/cos)V DC-2600Hz	5mA	2.62 x 3.12 x 0.4" module	Industry standard high accuracy digital vector generator with 0.1% scale factor variation.
292A700		± 4.0'	11.8V synchro 6.8V resolver 50-400Hz		2.0 x 2.0 x 0.4" module	Micro-module D/S-R with current limiting and thermal protection. Requires external transformers for 90V output.
292A800	12 bits	±6.0'	synchro/ resolver 11.8/90V 50-400Hz	1.5VA	2.62 x 3.12 x 0.8" module	Industry standard pin-out.
192B800	14 bits	±8.0'			2.62 x 3.12 x 0.5" module	Low profile industry standard pin-out. Current limiting and thermal protection. Low scale factor variation. ±12V version of 192L700/800.
192B700		±4.0'				
192L700		12 bits				
192L800						
192L810	14 bits	±4.0'		2.62 x 3.12 x 0.8" module	Industry standard reference powered with short circuit protection and thermal cut-off. 1.5VA output at 60Hz and no external transformers required.	
192L710						
192F500	12 bits	±6.0'		11.8V synchro 50-400Hz	4.5VA	2.0 x 2.0 x 0.54" module
192E600		±8.0'	5.0VA			
192E500		±2.0'				
392A100	16 bits	±2.0'				Micro-module D/S drives CT, CDX and TR loads. Solid-state output.
192A300	16 bits	±4.0'	synchro 11.8/90V 50-400Hz	25VA	7.4 x 5.1 x 2.7"(60Hz) 7.4 x 5.1 x 1.9" (400Hz) bulkhead mount	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.
192A600	12 bits	±10' (CT) ±21' (TR)			5.38 x 5.25 x 0.7" PC card	125VA
192A650				High peak power with "locked rotor" protection for driving torque receivers. 30VA steady state power for CT loads. External bulkhead mounted power stage. Overload and thermal shutdown.		

## General description

Solid State Control Transformer (SSCT) modules accept either 3-wire synchro or 4-wire resolver signals and parallel binary angle data and output a phase-sensitive AC "rotor" signal representing the sine of the difference angle between the synchro/resolver input and binary angle input. Solid State Control Differential Transmitters (SSCDX) modules accept either 3-wire synchro or 4-wire resolver signals and parallel binary angle data and output either 3-wire synchro or 4-wire resolver signals accurately representing the difference angle between the synchro/resolver input and binary angle input.

### SSCT and SSCDX converters

Series	Binary Input	Accuracy	Analog Input	Analog Output	Package	Description/Features
280A300	12 bits	±6.0'	synchro/ resolver 11.8/90V 50-400Hz	sin(Θ-Φ) 0.4V/°	2.0 x 2.0 x 0.4"	SSCT with demodulated output error signal.
180B100	14 bits	±4.0'		sin(Θ-Φ) 0.4V/° (11.8V) 1.0V/° (90V)	2.62 x 3.12 x 0.8"	SSCT with transformer isolated with 1VA "rotor" output signal. 60Hz module 1.0" high.
185A400	13 bits	±6.0'		synchro/resolver 11.8/90V		Transformer isolated SSCDX with 3VA output. 60Hz requires external transformers.