

Synchro, Resolver, RVDT, LVDT, Encoder, Hall, & MR Outputs to Digital Conversion

Resolver-to-Digital Converters

Product		Bown Besser Bess			
Model Number	RD-19231	RD-19241	RD-19232	RD-19252	RDC-19220/2/4 & RDC-19220S/2S
Accuracy (Arc-Minute)	1	8	1	5	2
Resolution (Bit) Programmable	10, 12, 14, 16	10, 12, 14	10, 12, 14, 16	10, 12	10, 12, 14, 16
Bandwidth	Dual/Configurable	Dual/Configurable	Dual/Configurable	Single/Configurable	Single/Configurable
Data Output	Parallel & AquadB	Parallel & AquadB	Serial & AquadB	Serial	Parallel
Synthesized Reference	Permissible Synchro/ Resolver Phase Shift up to 45°	Permissible Synchro/ Resolver Phase Shift up to 45°	Permissible Synchro/ Resolver Phase Shift up to 45°	Permissible Synchro/ Resolver Phase Shift up to 45°	Permissible Synchro/ Resolver Phase Shift up to 45° (Only "S" option)
Power Supply	+5V Only	+5V Only	+5V Only	+5V Only	+5V Only
I/O Voltage	+3.3V/+5V	+5V Only	+3.3V/+5V	+3.3V/+5V	+5V Only
Package	64 MQFP Lead & RoHS Lead Free Versions	52 MQFP Lead & RoHS Lead Free Versions	52 MQFP Lead & RoHS Lead Free Versions	52 MQFP Lead & RoHS Lead Free Versions	40 DIP, 44 Pin J Lead, 44 MQFP Lead & RoHS Lead Free Versions
Size	0.52″ X 0.52″ X 0.1" (13.2mm X 13.2mm X 2.5mm)	0.394" X 0.394" X 0.1" (10.0mm X 10.0mm X 2.5mm)	0.394" X 0.394" X 0.1" (10.0mm X 10.0mm X 2.5mm)	0.394" X 0.394" X 0.1" (10.0mm X 10.0mm X 2.5mm)	0.394″ X 0.394″ X 0.1″ (10.0mm X 10.0mm X 2.5mm)
Temperature	-40°C to +85°C	-55°C to +125°C	-40°C to +85°C	-55°C to +125°C	-55°C to +125°C
Special Feature	High Accuracy	Low Price	Serial Output	Low Price	MIL-PRF-38534

Synchro and Resolver Special Function Components							
	Thin-Film Resistor Networks	Scott-T & Reference Transformers	Reference Oscillators	S/R-to-Digital Converter API	Digital-to-S/R Converter SIM	Two-Speed S/R-to- Digital Combiner	
Product						EDDE - In unitational I su casa	
Model Number	DDC-XXXXX	210XX/520XX/ XXXXX/B-XXXX	OSC-15801/2/3	SD-14531 SD-14620/SDC-14610	DSC-10510/ DRC-11522	SD-15901	
Details	 Precision 2Vrms outputs for 2/11.8/90Vrms applications 0.02% tolerance (1LSB error in 16-bit resolution) Input Scott-T, Output Scott-T, and Reference Transformer configurations Ideal for COTS RD/RDC's above 	 Provides input or output voltage adjustment with angle accuracy up to 1 minute max Offers high input impedance up to 130kΩ Available in through-hole or surface-mount configurations 	 Configurable frequency 400 Hz to 20 kHz, scalable voltage Second Quadrature Reference output voltages for Inductosyn applications RAD tolerant version (OSC-15803) 	 Accuracy up to 1 Arc-Minute Pin configurable S/R input option 14-Bit or 16-Bit resolution -55°C to +125°C Operating temp SD-14531 (1 Ch) SD-14620 (2 Ch) SDC-14610 (3 Ch) 	 7 VA Drive capability for CT, CDX, or TR loads (DSC-10510) Accuracy up to 2 Arc-Minutes 16-Bit resolution 2 Ch (DRC-11522) 1 Ch (DSC-10510) 	 Up to 22 bits of angle resolution Achievable accuracy of sub 30 Arc-Seconds Configurable coarse/fine ratios, 1:4, 1:8, 1:16, 1:32, 1:64 Real-time two-speed computation Ideal for COTS RD/RDC's above 	

Note: For all components and cards, contact factory for MTBF reports

For more information on PDC's Synchro/Resolver solutions, please visit: www.powerdevicecorp.com/SR

Product		Model Number	Details
Cle			
	P	SB-3623	(4 or 6) 30-arc-seconds accurate output channels programmable for synchro or resolver output up to 90V LL with on board sine reference oscillator.
SB-3623	SB-3625	SB-3625	(4 or 8) 1-arc-minute accurate input channels available for synchro or resolver feedback up to 90v LL.
PCI		r	
		SB-3624	(6) 1-arc-minute accurate input channels available for synchro or resolver feedback up to 90Vrms LL, with on board sine reference oscillator.
МС		·	
n u n u r n n n n		SB-3641	(4 or 8) 1-arc-minute accurate input channels available for synchro or resolver feedback up to 90Vrms LL.
SB-3641	SB-3642	SB-3642	(4 or 8) 1-arc-minute accurate input channels available for synchro or resolver feedback up to 90Vrms LL, with discrete I/O and front panel connector.
	SB-3644	SB-36441F	(2 or 4) 1-arc-minute accurate output channels programmable for synchro or resolver (up to 90Vrms LL), with sine ref oscillator, discrete I/O & front panel connector.
C-104			
SB-3633 SB-3632		SB-3633	(4) 1-arc-minute accurate input channels available for synchro or resolver up to 90Vrms L
	SB-3632	SB-3632	(2) 1-arc-minute accurate output channels available for synchro or resolver output up to 11.8Vrms LL.
SB-3634 SB-3635		SB-3634	Mates with SB-36320 output card to create 2 synchro 90V magnetic isolated output channels.
	SB-3635	SB-3635	5VA Sine Reference oscillator with programmable options for 400 to 8191 Hz and 2 to 123Vrms LL.
PCI			
1	6U SB-365X	SB-365X	(3 to 9) 2-arc-minute accurate input channels and (6) 2-arc-minute accurate output channels available for synchro or resolver up to 90Vrms LL.
	3U SB-3644	SB-36441T	(2 or 4) 1-arc-minute accurate output channels programmable for synchro or resolver (up to 90Vrms LL), with sine ref oscillator, discrete I/O & front panel connector.
SB			
		SB-3661	(2) 1-arc-minute accurate input channels programmable for synchro or resolver feedbac up to 90Vrms LL, with on-board sine reference oscillator.
ME			
)	Lat.	SB-3611	(3 to12) 1-arc-minute accurate input channels available for synchro or resolver feedback up to 90v LL.
ynchro Bo	ooster Amplif	ier	
	1 - com	SBA-35XXX	Features 90 V outputs at 60 Hz or 400 Hz with high efficiency, utilizing power from the reference supply. Provides protection against short circuits, overloading, transients, temperature, & reference supply shutdown. Smallest & lightest synchro booster available.
iscrete M	odules	·	
API	SIM	SDC-63X, DSC-54X/644	Features include Synchro/Resolver-to-Digital or Digital-to-Synchro/Resolver with built-in transformer options for both input and output variants respectively. Offers 14-bit resolution
evelopm	ent Kits	l	
		RD-19231EX/RD-19241EX	Easy on-card configurable features to start fast design-ins using parallel data output converters such as RD-19231FX or RD-19241FX converters.

For ordering assistance and technical support, E-Mail: service@powerdevicecorp.com

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If it Moves... Position it with PDC



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