


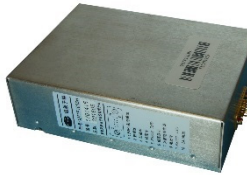







Model						
	AXCPT1040	AXRB1031	AXRB1021	AXRB1003H	AXGPS5050	AXGPS9000
Technology	CPT Atomic Clock	Rubidium			GPS-disciplined OCXO	
Short-term stability	2E-11 1 sec 7E-11 10 sec 2E-11 100 sec	1E-11 1 sec 4E-11 10 sec 2E-11 100 sec	3E-11 1 sec 1E-11 10 sec 3E-12 100 sec	4E-12 1 sec 1E-12 10 sec 4E-13 100 sec	5E-12 1 sec 1E-11 10 sec 1E-11 100 sec	1E-12 1 sec 3E-12 10 sec 5E-12 100 sec
Long-term stability	< 3E-11 / day	< 5E-12 / day			< 1E-13 / day	
Phase noise [dBc/Hz]	-90 10 Hz -120 100 Hz -140 1 kHz	-95 10 Hz -125 100 Hz -135 1 kHz	-110 10 Hz -140 100 Hz -150 1 kHz	-110 10 Hz -130 100 Hz -140 1 kHz	-130 10 Hz -150 100 Hz -155 1 kHz	-138 10 Hz -155 100 Hz -163 1 kHz
Features	<ul style="list-style-type: none"> Smallest Miniature Atomic Clock CPT Technology for high reliability Low Power Consumption Replacement for Microsemi CSAC SA.45s 	<ul style="list-style-type: none"> Compact Miniature Rubidium Low cost Low power consumption PCB mountable Compatible with OCXO package Replacement for Microsemi SA.3Xm 	<ul style="list-style-type: none"> High Stability RS-232 Interface for Monitoring Replacement for Microsemi X72, but using standard connectors 	<ul style="list-style-type: none"> Very High Stability Low Phase Noise Small volume RS-232 Interface for Monitoring Replacement for Spectratime LPRO 	<ul style="list-style-type: none"> Compact Miniature GPSDO Low Noise 1 PPS Input/Output RS-232 Interface / NMEA-0183 PCB mountable 	<ul style="list-style-type: none"> High Stability 10⁻¹¹ Ultra-Low Noise 1 PPS Input/Output RS-232 Interface / NMEA-0183 Cascadable with AXDA9000 distribution unit (up to 48 outputs)
Supply	3.3 V / 1.5 W	12~15 V / 6 W	12~18 V / 9 W	22~32 V / 10 W	12 V / 3 W	AC 230 V / 10 W
Size	45 x 36 x 14.5 mm THD Package	51 x 51 x 25 mm THD Package	89 x 76 x 28 mm Connectorized	127 x 95 x 38 mm Connectorized	50 x 50 x 25 mm THD Package	Slim 19" Rack - 1 HU



Ultra-High Stability Atomic Clocks

Model	 <p style="text-align: center;">AXCS9000</p>				 <p style="text-align: center;">AXCS9100</p>				 <p style="text-align: center;">AXRB6000S</p>															
Technology	Optically-Pumped Cesium Atomic Clock								Ultra-High Stability Rubidium for Space															
Stability / Phase noise	1E-11 1 sec 8E-12 10 sec 3E-12 100 sec 8E-13 1,000 sec 3E-13 hour 8E-14 day 5E-14 Floor				-100 1 Hz -130 10 Hz -145 100 Hz -150 1 kHz -154 10 kHz				1E-11 1 sec 8E-12 10 sec 3E-12 100 sec 8E-13 1,000 sec 3E-13 hour 8E-14 day 5E-14 Floor				-100 1 Hz -130 10 Hz -145 100 Hz -150 1 kHz -154 10 kHz				1E-12 1 sec 3E-13 10 sec 1E-13 100 sec 3E-14 1,000 sec 1E-14 hour 1E-14 day 1E-14 Floor				-90 1 Hz -120 10 Hz -130 100 Hz -145 1 kHz -150 10 kHz -150 100 kHz			
Features	<ul style="list-style-type: none"> ▪ Primary Reference Clock (PRC) ▪ 5 MHz, 10 MHz and 1PPS Output ▪ Applications: 4G/5G networks, DTV, DAB, CMDA and Tetra, IPTV ▪ Standard for Calibration and Test Labs ▪ Full monitoring and control features with modern user interface ▪ Continuous operating time >8 years ▪ Compatible with popular Cesium Clocks 								<ul style="list-style-type: none"> ▪ Primary Reference Clock (PRC) ▪ Customized Version for Telecom Industry ▪ 2.048 MHz, 10 MHz and 1PPS Output ▪ Applications: 4G/5G networks, DTV, DAB, CMDA and Tetra, IPTV ▪ Standard for Calibration and Test Labs ▪ Full monitoring and control features with modern user interface ▪ Continuous operating time >8 years ▪ Compatible with popular Cesium Clocks 				<ul style="list-style-type: none"> ▪ Ultra-High Frequency Stability ▪ Space applications: GNSS, Communication Satellite, Deep Space Exploration, Space Station ▪ Small size and low power consumption ▪ Qualified by CASC/CAST (Chinese Space Agency) ▪ High radiation hardness: 150 krad (TID) ▪ Heritage: BeiDou Navigation Satellite System (BDS) ▪ Replacement for Spectratime RAFS 											
Supply	DC 22~75 V AC 220 V / 110 W								DC 40~60 V / 80 W AC 100~240 V				Steady state <30 W											
Size	19" Rack - 4 HU								19" Rack - 4 HU				240 x 150 x 140 mm											

