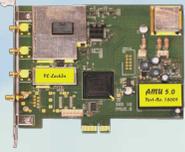
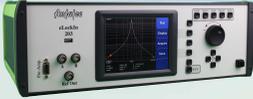
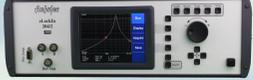




# Lockin Amplifiers - Comparison Table



	AMU 5.0	eLockIn 203	eLockIn204/2	eLockIn 205/2	USB LockIn 250	USB LockIn 250D
						
Inputs	Single Input	Dual Input – Configurations: A, A-B, A&B			Single Input	Dual Input - A, A-B, A&B
Noise	$2.5 \text{ nV}/\sqrt{\text{Hz}}$	$2.5 \text{ nV}/\sqrt{\text{Hz}}$	$4 \text{ nV}/\sqrt{\text{Hz}}$	$6 \text{ nV}/\sqrt{\text{Hz}}$	$4 \text{ nV}/\sqrt{\text{Hz}}$	
Interface	PCIe	Ethernet / USB			USB	
Calibrated Frequency Range	3 mHz to 2 MHz	10 mHz to 250 kHz	10 mHz to 1 MHz	30 mHz to 10 MHz	10 mHz to 250 kHz (1 MHz)	
Time Constants	200 $\mu\text{s}$ - 5 s	200 $\mu\text{s}$ - 1 ks	200 $\mu\text{s}$ - 1 ks	0.1 $\mu\text{s}$ - 1 ks	10 $\mu\text{s}$ - 5 s	
in Sync-Mode	1 - 200 cycles	1 - 200 cycles	1 $\mu\text{s}$ / 1 - 200 cycles	0.1 $\mu\text{s}$ / 1 - 200 cycles	1 $\mu\text{s}$	
Aux Out	-	8 channels 156 kHz 24 bit	8 channels 156 kHz 24 bit	8 channels 1 MHz 18 bit	2 channels 250 kHz 18 bit	
Spectrum Acquisition	mHz to 4 MHz	mHz to 250 kHz	mHz to 2 MHz	mHz to 20 MHz	mHz to 1 MHz	
External Trigger	Sine > 50mV <sub>rms</sub> , TTL	Sine Wave > 50mV <sub>rms</sub> , TTL			Sine Wave > 50mV <sub>rms</sub> , TTL	
Input Impedance	1 M $\Omega$    15 pF	1 M $\Omega$    10 pF	1 M $\Omega$    20 pF	1 M $\Omega$    20 pF	1 M $\Omega$    20 pF	