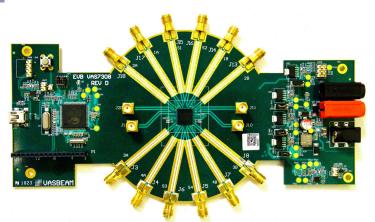
# **VAS7308 EVALUATION KIT**

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VASBEAM core IC evaluation kit includes the hardware and control software required to program and evaluate the VAS7308 ASIC products. The control software runs on any PC running a windows operating system.

Two control user interfaces options are available enabling the customer to program the ASIC and control the measurement equipment during sweep measurements.

### VAS7308 evaluation kit



## User interface options

#### Basic control user interface:

• Enables direct hardware control and ASIC configuration

#### Advanced control user interface:

- Enables direct hardware control and ASIC configuration.
- Control over external switching matrix
- Phase and amplitude sweep
- Calibration and error correction
- Direct control over the measurement equipment
- DC current measurements

#### **Output files:**

- Touchstone format (S2P format)
- Measurement data (CSV format)

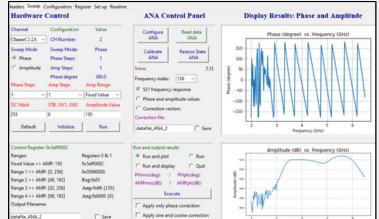
## Key features

- Simplified Setup for Basic Control.
- Enhanced Functionality with Advanced Control
- Easy Hardware Connectivity
- Versatile Power Options
- Streamlined RF Measurement Process

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## **Control user interface**

Configuration Register Set u	p											-
DC Enable Mask			Power Down	1A/2A	3A/4A	18/28	38/48			Update	Default	SPI I
DC_EN_Mask	255		pdphs	0	0	0	0					Register 2 >> 0x025064a0
Switch Mask			LNA Control	1A/2A	3A/4A	18/28	38/48					Register 3 >> 0x03000000 Register 4 >> 0x045054a0
SW1/SW2 Mask	2		Inagcti	0	0	0	0					Register 5 >> 0x05000000
Strobe			Insextctl[2:0]	0	0	0	0					Register 6 >> 0x061064a0
Enable Switch	0											Register 7 >> 0x07000000
			LNA Gain Word	14	2A	3A	44	18	28	38	48	Register 16 >> 0x101084a0
Switch Selection			Inaintctl[2:0]	0	0	0	0	0	0	0	0	Register 17 >> 0x1100000
swsel[1:0]	0		ANG/MAG Word	1A	2A	3A	4A	18	28	38	48	SPI 2 Register 2 >> 0x225084a0
Default Configuration			ampcti[7:0]	0	6	6	0	0	6	6	0	Register 3 >> 0x23000000
default_dacsel[2:0]	4		phsctl[15:0]	0	192	192	0	0	192	192	0	Register 4 >> 0x245084a0
default_Inabias[2:0]	6		Calibration	14	2A	34	44	18	28	38	4	Register 5 >> 0x25000000 Register 6 >> 0x251054a0
default_Inatx	0		dacioff[3:0]	10	10	10	10	10	10	10	10	Register 7 >> 0x27000000
default_parx_CH1	128		dacsel[2:0]	4	4	4	4	4	4	4	4	Register 16 >> 0x301084al
default_parx_CH2	128		ical(40)	16	16	16	16	16	16	16	16	Register 17 >> 0x31000000
Bias Selection	1A-4A	18-48	qual[4:0]	16	16	16	16	16	16	16	16	SPI 3 Register 2 >> 0x42000000
Inaint_cur_sel(2:0)	2	2	MUX Selection	14	24	34	44		28	38	48	Register 3 >> 0x434c8000
dacint_cur_sel[2:0]	2	2	MUX selection									Register 4 >> 0x441004a0
			muxsel	0	0	0	0	0	0	0	0	Register 5 >> 0x45000000
												Register 6 >> 0x46000000
VASBEAM P LTD												Register 7 >> 0x47000000
VAS7308 UI												Register 16 >> 0x501084a0 Register 17 >> 0x5100000



## Delivery package

- VAS7308 Rev B evaluation board
- Basic control interface
- Driver software and documentation
- Advanced control interface (optional)
- Calibration procedure (optional)
- VAS7304 switching matrix (optional)

### Customization

• The customization of control user interface for automatic measurements of VAS7308 beamforming channels at the available customer infrastructure.