

# VIAMI

## mA-6806

### AXIe Vector Signal Transceiver

#### Product Overview

The mA-6806 is the latest in a series of AXIe modular instrumentation from VIAVI Solutions. The mA-6806 is the industry's first modular AXIe solution that joins the measurement capabilities of a vector signal analyzer with the arbitrary waveform playback functions of a vector signal generator. Combined with precision timing and triggering functionality, the mA-6806 can simultaneously capture and playback over 160 MHz of bandwidth.

Whether you're trying to prototype your latest software defined radio waveform, validate your transceiver front-end, linearize a power amplifier, or execute production test on your wireless device, the mA-6806 has the performance and speed to tackle your RF test and measurement problems. The fully self-contained mA-6806 converts RF signals in the frequency range of 1 MHz to 6 GHz with storage for 500 MSa of I/Q baseband data. Or for real-time applications, the mA-6806 can stream the full I/Q bandwidth over its backplane PCI Express interface. Control over Ethernet



#### Capabilities

- Frequency range 1 MHz – 6 GHz
- Maximum bandwidth 160 MHz (200 MHz usable)
- High spurious free dynamic range
- Selectable low noise amplifier
- Harmonic and pre-select filtering
- Onboard 500 MSa ARB and acquisition memory
- Hardware digital downconverter
- Hardware resampling engine
- High power full- or half-duplex operation
- Agile list mode operation
- I/Q streaming via PCI Express
- Control over PCI Express or Gigabit Ethernet

#### Applications

- PA and FEU semiconductor test
- Radio component test
- Waveform prototyping
- IoT device development
- SIGINT / ELINT signal generation, recording and surveillance
- Wireless communications
- Aerospace and defense
- Radar

is also provided for ease of connectivity or to enable remote applications.

### **VSA Description**

The mA-6806 vector signal analyzer capabilities enable a wide range of applications. An onboard FPGA with powerful real-time DSP algorithms for flatness correction and image rejection provide a wide analysis bandwidth of 160 MHz. Down conversion is enabled over the LO frequency range of 70 MHz to 6 GHz, with direct access to the high-performance digitizer for signals below 70 MHz using the mixer-bypass capability. An exceptional spurious free dynamic range (>120 dB at 1 GHz center frequency) at an impressive mixer level of -28 dBm allows for fast ACLR testing. Selectable bandpass pre-selection filters are included for harmonic test. Combined with the included pre-amplifier, a displayed average noise level of -165 dBm / Hz (at 1 GHz center frequency) provides outstanding sensitivity necessary for over-the-air small signal reception and recording. List mode operation allows independent sequencing of receiver hardware settings (such as LO frequency, reference level, and port) and buffer acquisition selections. The onboard FPGA also provides a configurable digital down converter that allows near instantaneous tuning and channelization within the analysis bandwidth. Flexible triggering capabilities are provided from the front panel trigger connections or through the AXIe backplane trigger bus, allowing tightly synchronized operation of data acquisition or hardware list sequencing. Sample contiguous buffer acquisitions along with streaming transfers over PCI Express enable the creation of pipelined test sequences to maximize test execution efficiency. The mA-6806 in conjunction with a properly configured mA-3A01 AXIe solid-state storage module allows uninterrupted recording of over 2.5 hours of the full analysis bandwidth.

### **VSG Description**

The mA-6806 pairs an on-board 500 MSa ARB capable of sequencing up to 65536 waveforms with a vector signal generator operating over a frequency range of 6 GHz. A wide dynamic range from +10 dBm to -120 dBm is available for full-scale ARB signals. Power levels below -140 dBm for sensitivity tests can be achieved using the duplex port. A harmonic filter bank provides suppression of undesired harmonic signal components across the entire operating power range. Exceptional level accuracy and repeatability provides the performance needed for demanding ATE tests. List mode functionality is available to sequence the ARB and hardware settings independently. Triggering is provided from the front panel trigger connections, the AXIe backplane trigger bus, or from ARB embedded marker signals, ensuring tight synchronization of production test events. Sample contiguous ARB sequencing allows drop-out free testing. Automatic real-time compensation for I/Q imbalance and amplitude flatness equalization is applied by the FPGA. Additionally, a programmable digital upconverter is provided for flexible ARB sample rate interpolation. Real-time generated waveforms are enabled via I/Q baseband streaming over PCI Express.

## VSA Performance Specifications

Frequency Specifications	
Conversion architecture	DC quadrature (zero-IF)
Tuning Range	70 MHz to 6 GHz, usable to 100 kHz with mixer bypass
Tuning Resolution	0.1 Hz (with digital frequency error correction) 6 Hz (without digital frequency error correction)
Accuracy, Stability, Aging	Per chassis CLK100
Settling Time (within 0.1 ppm of final frequency)	300 $\mu$ s

Single Sideband Phase Noise			
Center Frequency	1 kHz Offset	10 kHz Offset	1 MHz Offset
900 MHz	<-107 dBc / Hz <-110 dBc / Hz typical	<115 dBc / Hz <-120 dBc / Hz typical	<-130 dBc / Hz <-133 dBc / Hz typical
1900 MHz	<-101 dBc / Hz <-104 dBc / Hz typical	<-107 dBc / Hz <-112 dBc / Hz typical	<-128 dBc / Hz <-131 dBc / Hz typical
2900 MHz	<-99 dBc / Hz <-102 dBc / Hz typical	<-105 dBc / Hz <-108 dBc / Hz typical	<-127 dBc / Hz <-131 dBc / Hz typical
5900 MHz	<-90 dBc / Hz <-94 dBc / Hz typical	<-99 dBc / Hz <-101 dBc / Hz typical	<-124 dBc / Hz <-128 dBc / Hz typical

Amplitude Specifications	
Maximum Continuous Input Power	
RF Input Port	+10 dBm, $\pm$ 16 VDC
RF Duplex Port	+40 dBm, 0 VDC

Range, Settling Time, and Repeatability	
Reference level range and resolution	Port max power to average noise level, 30 dB attenuation in 2 dB nominal steps, selectable preamp
Settling Time, no change in LO, preselector, or preamp setting	<50 $\mu$ s within 0.1 dB
Settling Time, LO Returned	<300 $\mu$ s within 0.1 dB <2 ms if crossing Mixer Bypass or 550 MHz
Level Repeatability	0.01 dB typical

Analysis Bandwidth Flatness				
RF Input port, preselector disabled, reference level >-50 dBm, exclusive of LO center frequency				
Center Frequency	$\pm$ 0.10 dB typical	$\pm$ 0.20 dB typical	$\pm$ 0.30 dB typical	-1 dB
Mixer Bypass (<70 MHz)	-	-	-	-
70 MHz to 130 MHz	$\pm$ 10 MHz	$\pm$ 20 MHz	-	-
130 MHz to 6 GHz	$\pm$ 10 MHz	$\pm$ 40 MHz	$\pm$ 80 MHz	-

CW Amplitude Accuracy		
RF input port, preselector disabled, measured -1 MHz from LO Center Frequency		
Center Frequency	Input Level $\leq$ 10 dBm to -50 dBm	Input Level $\leq$ -50 dBm to -80 dBm
Mixer Bypass (<70 MHz)	$\pm$ 0.70 dB typical	$\pm$ 1.2 dB typical
70 MHz to 550 MHz	< $\pm$ 0.40 dB, $\pm$ 0.2 dB typical	< $\pm$ 0.70 dB, $\pm$ 0.2 dB typical
550 MHz to 1 GHz	< $\pm$ 0.50 dB, $\pm$ 0.2 dB typical	< $\pm$ 0.80 dB, $\pm$ 0.2 dB typical
1 GHz to 3 GHz	< $\pm$ 0.60 dB, $\pm$ 0.2 dB typical	< $\pm$ 0.90 dB, $\pm$ 0.2 dB typical
3 GHz to 6 GHz	< $\pm$ 0.70 dB, $\pm$ 0.2 dB typical	< $\pm$ 1.00 dB, $\pm$ 0.2 dB typical

RF Duplex Port, preselector disabled, measured -1 MHz from LO Center Frequency		
Center Frequency	Input Level $\leq$ 40 dBm to -20 dBm	Input Level $\leq$ -20 dBm to -50 dBm
Mixer Bypass (<70 MHz)	< $\pm$ 0.7 dB typical	$\pm$ 1.2 dB typical
70 MHz to 550 MHz	< $\pm$ 0.40 dB, $\pm$ 0.2 dB typical	< $\pm$ 0.70 dB, $\pm$ 0.2 dB typical
550 MHz to 1 GHz	< $\pm$ 0.50 dB, $\pm$ 0.2 dB typical	< $\pm$ 0.80 dB, $\pm$ 0.2 dB typical
1 GHz to 3 GHz	< $\pm$ 0.60 dB, $\pm$ 0.2 dB typical	< $\pm$ 0.90 dB, $\pm$ 0.2 dB typical
3 GHz to 6 GHz	< $\pm$ 0.70 dB, $\pm$ 0.2 dB typical	< $\pm$ 1.00 dB, $\pm$ 0.2 dB typical

RF Input Port, preselector enabled, measured -1 MHz from LO Center Frequency		
Center Frequency	Input Level $\leq$ 10 dBm to -50 dBm	Input Level $\leq$ -50 dBm to -80 dBm
Mixer Bypass (<70 MHz)	$\pm$ 0.70 dB typical	$\pm$ 1.2 dB typical
70 MHz to 550 MHz	< $\pm$ 0.50 dB, $\pm$ 0.2 dB typical	< $\pm$ 0.80 dB, $\pm$ 0.2 dB typical
550 MHz to 1 GHz	< $\pm$ 0.60 dB, $\pm$ 0.2 dB typical	< $\pm$ 0.90 dB, $\pm$ 0.2 dB typical
1 GHz to 3 GHz	< $\pm$ 0.70 dB, $\pm$ 0.2 dB typical	< $\pm$ 1.00 dB, $\pm$ 0.2 dB typical
3 GHz to 6 GHz	<0.80 dB, $\pm$ 0.2 dB typical	< $\pm$ 1.10 dB, $\pm$ 0.2 dB typical

RF Duplex Port, preselector enabled, measured -1 MHz from LO Center Frequency		
Center Frequency	Input Level $\leq 40$ dBm to -20 dBm	Input Level $\leq -20$ dBm to -50 dBm
Mixer Bypass (<70 MHz)	$\pm 0.70$ dB typical	$\pm 1.2$ dB typical
70 MHz to 550 MHz	$< \pm 0.50$ dB, $\pm 0.2$ dB typical	$< \pm 0.80$ dB, $\pm 0.2$ dB typical
550 MHz to 1 GHz	$< \pm 0.60$ dB, $\pm 0.2$ dB typical	$< \pm 0.90$ dB, $\pm 0.2$ dB typical
1 GHz to 3 GHz	$< \pm 0.70$ dB, $\pm 0.2$ dB typical	$< \pm 1.00$ dB, $\pm 0.2$ dB typical
3 GHz to 6 GHz	$< 0.80$ dB, $\pm 0.2$ dB typical	$< \pm 1.10$ dB, $\pm 0.2$ dB typical

Input Voltage Standing Wave Ratio RF Input Port, preselector disabled, +10 dBm reference level	
Center Frequency	VSWR
1 MHz to 400 MHz	$< 1.15:1$
400 MHz to 3 GHz	$< 1.25:1$
3 GHz to 5.4 GHz	$< 1.20:1$
5.4 GHz to 6 GHz	$< 1.25:1$

RF Duplex Port	
Center Frequency	VSWR
1 MHz to 550 MHz	$< 1.05:1$
550 MHz to 3 GHz	$< 1.20:1$
3 GHz to 6 GHz	$< 1.29:1$

Spurious Responses	
Residual DC response	-70 dBfs
Residual sideband image	$< -55$ dBc typical
Input related responses	$< -85$ dBc typical
Non-input related residuals	$< -95$ dBm typical
LO leakage at RF Input Port	$< -100$ dBm, preselector enabled, 0 dB attenuation $< -110$ dBm, preselector enabled, preamp enabled $< -50$ dBm, preselector disabled, 0 dB attenuation $< -100$ dBm, preselector disabled, preamp enabled

Dynamic Range Displayed Average Noise Level Terminated RF Input Port, preselector disabled, 1 Hz RBW, RMS average		
Center Frequency	0 dB attenuation	Preamp enabled
Mixer Bypass (<70 MHz)	-150 dBm typical	-168 dBm typical
70 MHz to 550 MHz	-148 dBm, -152 dBm typical	-167 dBm typical
550 MHz to 1 GHz	-147 dBm, -153 dBm typical	-167 dBm typical
1 GHz to 3 GHz	-145 dBm, -149 dBm typical	-166 dBm typical

3 GHz to 6 GHz	-135 dBm, -141 dBm typical	-158 dBm typical
Terminated RF Input Port, preselector enabled, 1 Hz RBW, RMS average		
Center Frequency	0 dB attenuation	Preamp enabled
Mixer Bypass (<70 MHz)	-153 dBm typical	-168 dBm typical
70 MHz to 550 MHz	-148 dBm, -154 dBm typical	-167 dBm typical
550 MHz to 1 GHz	-147 dBm, -152 dBm typical	-167 dBm typical
1 GHz to 3 GHz	-146 dBm, -151 dBm typical	-167 dBm typical
3 GHz to 6 GHz	-142 dBm, -148 dBm typical	-165 dBm typical

Third-Order Intermodulation Intercept RF Input Port, preselector disabled, two-tones, -3 MHz and -5 MHz from center frequency		
Center Frequency	0 dB attenuation	Preamp enabled
Mixer Bypass (<70 MHz)	+38 dBm typical	+12 dBm typical
70 MHz to 550 MHz	+32 dBm, +35 dBm typical	+12 dBm typical
550 MHz to 1 GHz	+30 dBm, +33 dBm typical	+12 dBm typical
1 GHz to 3 GHz	+26 dBm, +29 dBm typical	+11 dBm typical
3 GHz to 6 GHz	+22 dBm, +25 dBm typical	+9 dBm typical

RF Input Port, preselector enabled, two-tones, -3 MHz and -5 MHz from center frequency		
Center Frequency	0 dB attenuation	Preamp enabled
Mixer Bypass (<70 MHz)	+30 dBm typical	+12 dBm typical
70 MHz to 550 MHz	+26 dBm, +29 dBm typical	+10 dBm typical
550 MHz to 1 GHz	+26 dBm, +29 dBm typical	+9 dBm typical
1 GHz to 3 GHz	+24 dBm, +27 dBm typical	+7 dBm typical
3 GHz to 6 GHz	+17 dBm, +20 dBm typical	+0 dBm typical

Acquisition and Channel List Mode Specifications Data Acquisition	
Sampling Rate	250 MSPS (I / Q Data)
Resolution	16-bit I, 16-bit Q
Acquisition Depth	500 MSa (I / Q samples)
Selectable Sample Rate Decimation	1 to 524288
ACQ List Addresses	65536
ACQ List Parameters	Number of samples, sample rate, pre / post trigger selection, trigger holdoff, markers enabled, sample contiguous (requires common sample rate)

<b>Acquisition Triggering</b>	
Mode	Single, continuous
Sources	Envelope power, periodic (timers), free-run, marker signals, front-panel triggers, backplane trigger bus
Pre / Post Trigger Range	-(buffer length) to $2^{31} - 1$ samples
Trigger Resolution	1 sample period (4 ns)
Trigger Accuracy	$\pm 8$ samples
Trigger Holdoff	0 to 8.59 seconds, 4 ns resolution
<b>VSA RF Channel List</b>	
Channel List Addresses	4096
Channel List Parameters	LO frequency / mixer bypass, center frequency offset, phase offset, reference level, RF attenuator, RF preamp, preselector, port
Mode	Manual (software), internal (sequential counter), external (arbitrary trigger encoding)
Sources	Periodic (timers), marker signals, ARB / ACQ completion, front-panel triggers, backplane trigger bus

## VSG Performance Specifications

<b>Frequency Specifications</b>			
Conversion architecture	DC quadrature (zero-IF)		
Tuning Range	1 MHz to 6 GHz, usable to 100 kHz		
Tuning resolution	0.1 Hz (with digital frequency error correction) 6 Hz (without digital frequency error correction)		
Accuracy, stability, aging	Per chassis CLK100		
Settling Time (within 0.1 ppm of final frequency)	300 $\mu$ s		
<b>Single Sideband Phase Noise</b>			
Center Frequency	1 kHz offset	10 kHz offset	1 MHz offset
900 MHz	<-107 dBc / Hz, <-110 dBc / Hz typical	<-114 dBc / Hz, <-119 dBc / Hz typical	<-129 dBc / Hz, <-133 dBc / Hz typical
1900 MHz	<-101 dBc / Hz, <-104 dBc / Hz typical	<-108 dBc / Hz, <-111 dBc / Hz typical	<-128 dBc / Hz, <-130 dBc / Hz typical
2900 MHz	<-98 dBc / Hz, <-102 dBc / Hz typical	<-104 dBc / Hz, <-108 dBc / Hz typical	<-126 dBc / Hz, <-130 dBc / Hz typical
5900 MHz	<-90 dBc / Hz, <-94 dBc / Hz typical	<-98 dBc / Hz, <-102 dBc / Hz typical	<-123 dBc / Hz, <-127 dBc / Hz typical

<b>Amplitude Specifications</b>				
<b>Output Power Range</b>				
RF output port	+13 dBm to -150 dBm			
RF duplex port	-17 dBm to -150 dBm			
<b>Settable Power Range</b>				
RF output port	+10 dBm to -125 dBm			
RF duplex port	-20 dBm to -150 dBm			
<b>Resolution, Settling Time, and Repeatability</b>				
Settling resolution	0.01 dB			
Settling time	<50 $\mu$ s within 0.1 dB			
Settling time, LO returned	<300 $\mu$ s within 0.1 dB			
Level repeatability	0.01 dB typical			
<b>Modulation Bandwidth Flatness</b>				
RF output port, output level >-50 dBm				
Center Frequency	$\pm 0.10$ dB typical	$\pm 0.20$ dB typical	$\pm 0.30$ dB typical	-1 dB typical
1 MHz to 6 GHz	$\pm 10$ MHz	$\pm 40$ MHz	$\pm 80$ MHz	$\pm 100$ MHz
<b>CW Amplitude Accuracy</b>				
RF output port				
Center frequency	Output Level $\leq 10$ dBm to -20 dBm	Output Level $\leq -20$ dBm to -80 dBm	Output Level $\leq -80$ dBm to -120 dBm	
1 MHz to 400 MHz	< $\pm 0.40$ dB, $\pm 0.25$ dB typical	< $\pm 0.60$ dB, $\pm 0.25$ dB typical	< $\pm 0.70$ dB, $\pm 0.35$ dB typical	
400 MHz to 1 GHz	< $\pm 0.50$ dB, $\pm 0.25$ dB typical	< $\pm 0.70$ dB, $\pm 0.25$ dB typical	< $\pm 0.90$ dB, $\pm 0.35$ dB typical	
1 GHz to 3 GHz	< $\pm 0.50$ dB, $\pm 0.25$ dB typical	< $\pm 0.70$ dB, $\pm 0.25$ dB typical	< $\pm 0.90$ dB, $\pm 0.35$ dB typical	
3 GHz to 6 GHz	< $\pm 0.70$ dB, $\pm 0.25$ dB typical	< $\pm 0.70$ dB, $\pm 0.35$ dB typical	< $\pm 1.60$ dB, $\pm 0.50$ dB typical	
<b>RF duplex port</b>				
Center frequency	Output Level $\leq -30$ dBm to -50 dBm		Output Level $\leq -50$ dBm to -120 dBm	
1 MHz to 400 MHz	< $\pm 0.40$ dB, $\pm 0.25$ dB typical		< $\pm 0.60$ dB, $\pm 0.3$ dB typical	
400 MHz to 1 GHz	< $\pm 0.50$ dB, $\pm 0.25$ dB typical		< $\pm 0.70$ dB, $\pm 0.35$ dB typical	
1 GHz to 3 GHz	< $\pm 0.50$ dB, $\pm 0.25$ dB typical		< $\pm 0.80$ dB, $\pm 0.4$ dB typical	
3 GHz to 6 GHz	< $\pm 0.70$ dB, $\pm 0.25$ dB typical		< $\pm 1.00$ dB, $\pm 0.5$ dB typical	
<b>Output Voltage Standing Wave Ratio</b>				
RF output port, output level $\leq -20$ dBm				
Center frequency	VSWR			
1 MHz to 400 MHz	<1.55:1			

<b>Output Voltage Standing Wave Ratio - Continued</b> RF output port, output level $\leq -20$ dBm		
400 MHz to 1 GHz	<1.40:1	
1 GHz to 2.7 GHz	<1.50:1	
2.7 GHz to 6 GHz	<1.90:1	
RF duplex port		
Center frequency	VSWR	
1 MHz to 400 MHz	<1.05:1	
400 MHz to 3 GHz	<1.20:1	
3 GHz to 6 GHz	<1.29:1	
Spurious Responses		
Residual LO Response	<-65 dBm <3 GHz, <-40 dBm >3 GHz typical	
Residual Sideband Image	<-65 dBc typical	
Harmonic spurious	<-33 dBc typical	
Subharmonic spurious	<-45 dBc typical	
Nonharmonic spurious	<-65 dBc typical, output level >-10 dBm spurious	
Dynamic Range		
Broadband Noise Floor		
RF output port, CW, measured -10 MHz from LO center frequency		
Center frequency	Output Level >-20 dBm	Output Level $\leq -20$ dBm
1 MHz to 400 MHz	<-130 dBm typical	<-150 dBm typical
400 MHz to 1 GHz	<-130 dBm typical	<-150 dBm typical
1 GHz to 3 GHz	<-130 dBm typical	<-150 dBm typical
3 GHz to 6 GHz	<-135 dBm typical	<-155 dBm typical
RF duplex port, CW, measured -10 MHz from LO center frequency		
Center frequency	Output Level >-50 dBm	Output Level $\leq -50$ dBm
1 MHz to 400 MHz	<-150 dBm typical	<-160 dBm typical
400 MHz to 1 GHz	<-150 dBm typical	<-160 dBm typical
1 GHz to 3 GHz	<-150 dBm typical	<-160 dBm typical
3 GHz to 6 GHz	<-155 dBm typical	<-160 dBm typical
Third-order intermodulation distortion		
RF output port, two-tones -10 dBfs, -3 MHz and -5 MHz from center frequency		
Center frequency	Output level >-20 dBm	Output level $\leq -20$ dBm
1 MHz to 400 MHz	<-70 dBc typical	<-75 dBc typical
400 MHz to 1 GHz	<-60 dBc typical	<-65 dBc typical
1 GHz to 3 GHz	<-60 dBc typical	<-65 dBc typical
3 GHz to 6 GHz	<-60 dBc typical	<-60 dBc typical
ARB and Channel List Mode Specifications		
ARB Data		
Sampling rate	250 MSPS (I / Q data)	
Resolution	16-bit I, 16-bit Q	
ARB depth	500 MSa (I / Q samples)	
Selectable sample rate interpolation	1 to 524288	
ARB list addresses	65536	

ARB list parameters	Number of samples, sample rate, trigger selection, trigger holdoff, markers enabled, repeat count, sample contiguous (requires common sample rate)
ARB Triggering	
Mode	Single, continuous
Sources	Periodic (timers), free-run, marker signals, front-panel triggers, backplane trigger bus
Trigger offset range	0 to $2^{31}-1$ samples
Trigger resolution	1 sample period (4 ns)
Trigger accuracy	$\pm 8$ samples
Trigger holdoff	0 to 8.59 seconds, 4 ns resolution
VSG RF Channel List	
Channel list addresses	4096
Channel list parameters	LO frequency, center frequency offset, phase offset, output level, port
Mode	Manual (software), internal (sequential counter), external (arbitrary trigger encoding)
Sources	Periodic (timers), marker signals, ARB / ACQ completion, front-panel triggers, backplane trigger bus

## Additional Module Interfaces

Standard Compliance	
AXLe-1 Base Architecture Specification, Revision 3	
Timing and Trigger	
CLK100	as per AXLe Standard
Trigger Bus	as per AXLe Standard
SYNC	as per AXLe Standard
STRIG	as per AXLe Standard
Front Panel SMB Triggers A,B,C,D	Bi-directional triggers, +3.3 V output, -0.2 to +5 B input
Ethernet Base Fabric	
Link Speed	10 / 100 / 1000 Mbps
VLAN Support	Yes
PCI Express Fabric	
Fabric Channels	1
Link Width	x4
Link Speed	5 Gbps
Configuration	Endpoint
Environmental and Physical Specifications	
Module Operating	15° to 75° C
Environmental Operating	0° to 50° C
Environmental Storage	-40° to 71° C
Humidity	95% to 40° C (in accordance with MIL-PRF-28800F)
Altitude	4600 m
Functional Shock	30 G (in accordance with MIL-PRF-28800F)
Random Vibration	5 Hz - 500 Hz (in accordance with MIL-PRF-28800F)

<b>Regulatory</b>	
Safety compliance	IEC / EN61010-1
EMC compliance	IEC / EN 61326-1 IEC / EN 61000-3-2 IEC / EN 61000-3-3 MIL-PRF-28800F Class 3
<b>Electrical</b>	
Operating voltage range	48 VDC
Power dissipation	<100 W
<b>Mechanical</b>	
Form Factor	1 Slot AXIe
Dimensions	30 mm (W) x 322.5 mm (H) x 280 mm (D)
Weight	2.7 kg

#### 1. Technical Specifications

The technical warranted specifications listed are subject to the following conditions:

- Within 20° to 35° C environmental temperature
- After 60 minute instrument warmup period
- Within valid calibration period (1 year)
- After a full normalization
- Instrumental temperature has not deviated more than 5° C as reported from internal module temperature since last Full Normalization

Typical specifications describe additional performance information exhibited by 95% of units with 95% confidence interval, subject to the conditions above and are not guaranteed.

Nominal specifications describe supplemental information concerning useful or expected performance not covered by warranted or typical specifications.



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mA-6806-ds-cmp-nse-ae  
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