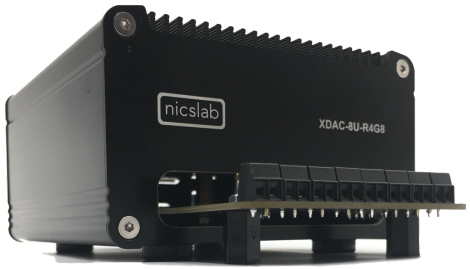
nicslab

NEW PRODUCT

XDAC

DETECT, ANALYZE & CONTROL YOUR SIGNAL FOR THE BETTER FUTURE

The XDAC system is a complete, compact, programmable, affordable and easy to use multichannel source measurement system for low power applications from simple electronic circuits to complex photonic integrated circuits.



sales@nicslab.com
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Ordering Information:

XSoptix

800 Village Walk #316
Guilford, CT 06437
Ph: 203-401-8093

Email orders to: sales@xsoptix.com
Fax orders to: 800-878-7282

Better control, more accurate with rich features

- Enable range span configuration through software
- High-resolution control with 16-bit standard
- High scalability 120 channels in a box
- Flexible unipolar and bipolar output
- Onboard wireless networking
- Gigabit Ethernet
- Functional GPIO
- USB ports

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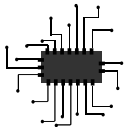
Your new source measurement system

The scalability, flexibility, and performance of the XDAC revolutionize the conventional source measurement unit. For the first time, we've built a complete scalable source measurement system experience. Whether you're sourcing devices, measuring parameters, automating experiments or analyzing data, you'll find the easy to use and flexible experience - but on a compact and much more cost-effective instrument.

Real-time monitoring

XDAC equipped with high responsivity sensors per channel and high resolution converter combine with high-speed real-time voltage and current reading.

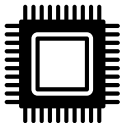


Flexible output range

Your XDAC comes with range span configuration technology that enable the user to select the output range with software without loose control of the high-resolution feature.

Easy to use GUI

We are making the graphical user interface simple with many features depend on what you need.



High scalability

Start from 8 channels output per unit to 120 channels in a single box. It also enable daisy-chained for the larger channels.

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Model Comparison (1)

XDAC-XU	XDAC-XMUB
8/40/120 Channels	8/40/120 Channels
16-bit resolution control	16-bit resolution control
Enable voltage and current range configuration through software (technology that enables the user to select the output range with software without loose control of the high-resolution feature).	Enable voltage range configuration through software (technology that enables the user to select the output range with software without loose control of the high-resolution feature).
0 - 20 Volt, 0 - 300 mA (Basic) + 0 - 5 Volt, 0 - 10 Volt, 0 - 20 Volt, 0 - 200 mA, 0 - 100 mA, 0 - 50 mA, 0 - 12.5 mA, 0 - 6.25 mA, 0 - 3.25 mA (Premium feature)	±20 Volt, ±500 mA (Basic) + ±2.5 Volt, ±5 Volt, ±10 Volt, 0 - 5 Volt, 0 - 10 Volt, 0 - 20 Volt, 0 - 40 V (Premium feature)
Gigabit Ethernet, USB ports	Gigabit Ethernet, USB ports
Onboard WiFi	Onboard WiFi
Windows, Linux, Mac support (Raspberry Pi, Python, LabView, C#)	Windows, Linux, Mac support (Raspberry Pi, Python, LabView, C#)

Model Comparison (2)

XDAC-XU	XDAC-XMUB
40U - M1 multiconnector standard	40MUB - M1 multiconnector standard
120U - M6 multiconnector standard	120MUB - M6 multiconnector standard
1 uA current reading resolution	1 uA current reading resolution
1 mV voltage reading resolution	1 mV voltage reading resolution
15 uVpp DAC voltage output noise (0.1 Hz to 10 Hz)	15 uVpp DAC voltage output noise (0.1 Hz to 10 Hz)
12 nA/√Hz DAC current noise density (f = 1kHz)	200 fA/√Hz DAC current noise density (f = 1kHz)

Software

Basic features: slider, voltage reading, current reading, enable SCPI command.

Premium features: Basic + notes, lock, save & load setting, record, sequence, programming template, range span configuration

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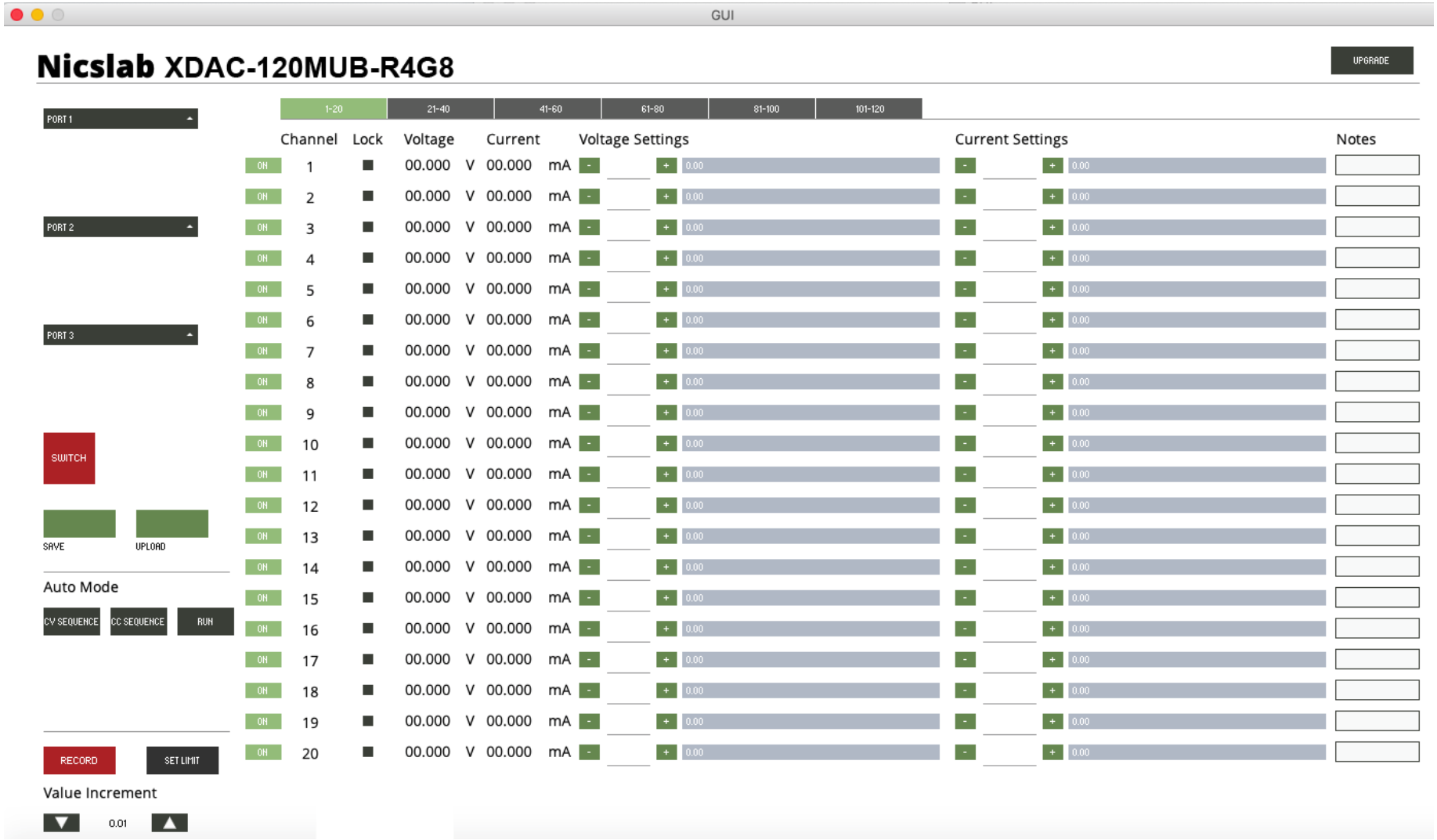
Graphical User Interface (GUI)



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Price List (September 2020)

Model	Channel	Output Range / Channel	Price Basic (USD)[a]	Price Premium (USD)[b]
XDAC-8U-R4G8	8	0 - 20 Volt, 0 - 300 mA	2950	4950
XDAC-40U-R4G8	40	0 - 20 Volt, 0 - 300 mA	10500	12500
XDAC-120U-R4G8	120	0 - 20 Volt, 0 - 300 mA	29700	32000
XDAC-8MUB-R4G8	8	±20 Volt, ±500 mA	2650	4850
XDAC-40MUB-R4G8	40	±20 Volt, ±500 mA	9150	12000
XDAC-120MUB-R4G8	120	±20 Volt, ±500 mA	26500	28500

[a] Basic Price Features: slider, voltage reading, current reading, enable SCPI command.

[b] Premium Price Features: Basic + notes, lock, save & load setting, record, sequence, programming template, softspan.

⚹ Daisy chain also enable for larger channel scale.

Please contact sales@nicslab.com for particular/custom specification.