

SHAPING LIGHT.

HELPING ENGINEERS AND SCIENTISTS IN
ADVANCING HOW THE WORLD COMMUNICATES,
SENSES AND CONNECTS



TUNABLE LASER PRODUCT LINE DATA SHEET

THE COBRITE ECOSYSTEM – TUNABLE LASER SOURCES FOR CUTTING EDGE RESEARCH

Introducing our CoBrite tunable narrow linewidth laser ecosystem. Designed with simplicity and versatility in mind, CoBrite offers multiple chassis options and laser variants, making it an essential tool for researchers in the lab and on the production floor. With tunability options in the C-band, L-band, C+L band or O-band, from a single source or in configurations of more than 100 ports, there's a CoBrite configuration to suit virtually every application. We keep expanding the CoBrite ecosystem to address new applications and market requirements when they arise.



COBRITE DX1



COBRITE DX2



COBRITE DX



COBRITE MX

KEY FEATURES

- Full tunability across entire specified range
- Extended C and L – Band, 1525nm to 1625nm
- O-Band for DX and DX2 available
- Up to 17.8 dBm Output power
- Laser Linewidth down to < 25kHz
- Polarization Maintaining Output
- Integrated Web Server for browser-based control
- 19" Rack mountable

TYPICAL APPLICATIONS

- Fiber-optic communications
- Coherent optical transceiver development
- Local Oscillator
- Silicon Photonics
- Versatile Light sources light sources for optics and physics labs

THIS IS WHAT DISTINGUISHES OUR PRODUCTS



COBRITE IS FLEXIBLE

Chose from hundreds of variants and configure the right product for your application.



SIMPLE, INTUITIVE USABILITY

Use the installation-free WebGUI to control your CoBrite right out of the Internet Browser.



COBRITE IS SCALABLE

Chose your chassis from our CoBrite platform to support your application from 1 to 48 Laser ports in a single system.

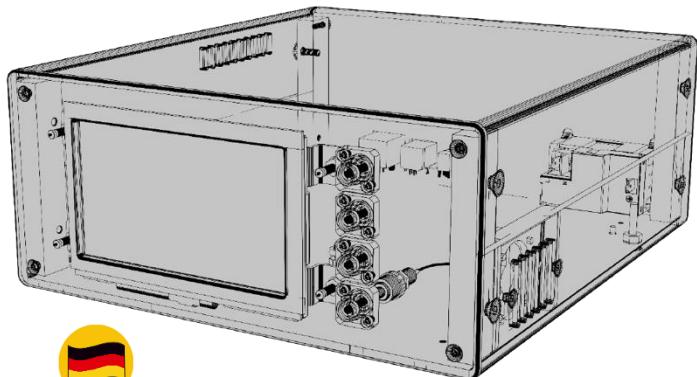


ANY LASER IN ANY CHASSIS

This modular approach allows to fully customize your CoBrite by integrating any combination and number of lasers into one chassis

DESIGNED & MADE IN GERMANY

Blends innovation and precision to ensure success



DESIGNED & MADE
IN GERMANY

German craftsmanship is renowned worldwide for its meticulous attention to detail and use of high-quality materials.

It signifies a commitment to exceptional quality and precision engineering.

At ID Photonics, our entire operations are based in Germany, ensuring top-notch craftsmanship. We handle everything from manufacturing and hardware design to software and circuit design. This comprehensive approach guarantees products that are reliable, durable, and innovative. By choosing ID Photonics, you invest in engineering excellence and timeless design, all crafted with meticulous attention to detail in Germany.

SIMPLE, INTUITIVE CONTROL OF YOUR LASER

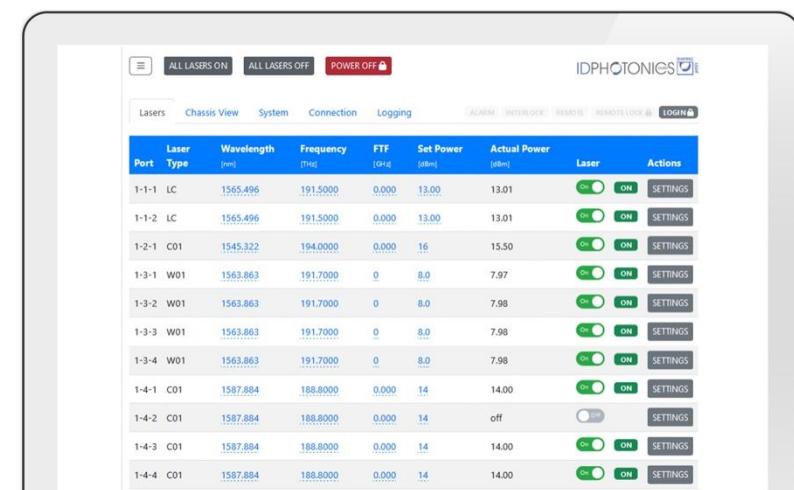
Our laser system comes with an intuitive and easy-to-use graphical interface that requires no installation. It's designed to provide a seamless experience for you to control and monitor the laser with ease.

- Simplicity at Its Best:** Say goodbye to complex installations and manual control. Our laser system features an embedded graphical user interface that requires no additional software. Just connect, and you're ready to go.
- Intuitive Design:** Navigate with ease through our clean and modern interface. Monitor real-time performance, adjust settings, and ensure safe operation with a few clicks.
- Plug-and-Play Convenience:** Start using your laser system right out of the box. Connect via USB or Wi-Fi, open your web browser, and take control through the built-in interface.



1

COBRITE MX - WEB GUI
ON TABLET



COBRITE MX - WEB GUI
ON DESKTOP



3

COBRITE DX - TOUCH GUI
ON PRODUCT

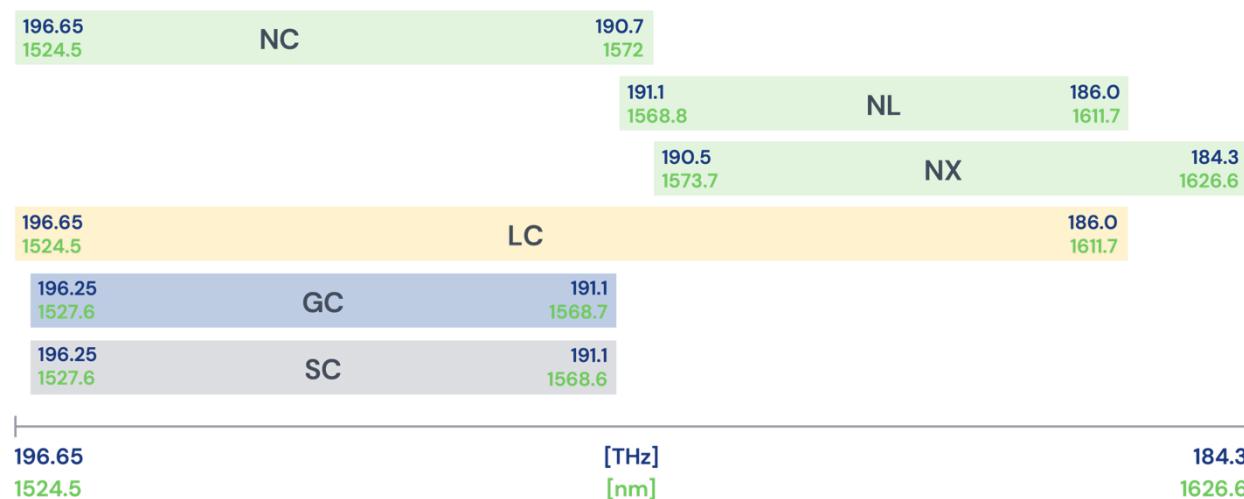
TUNABLE LASER SPECIFICATION

NEW

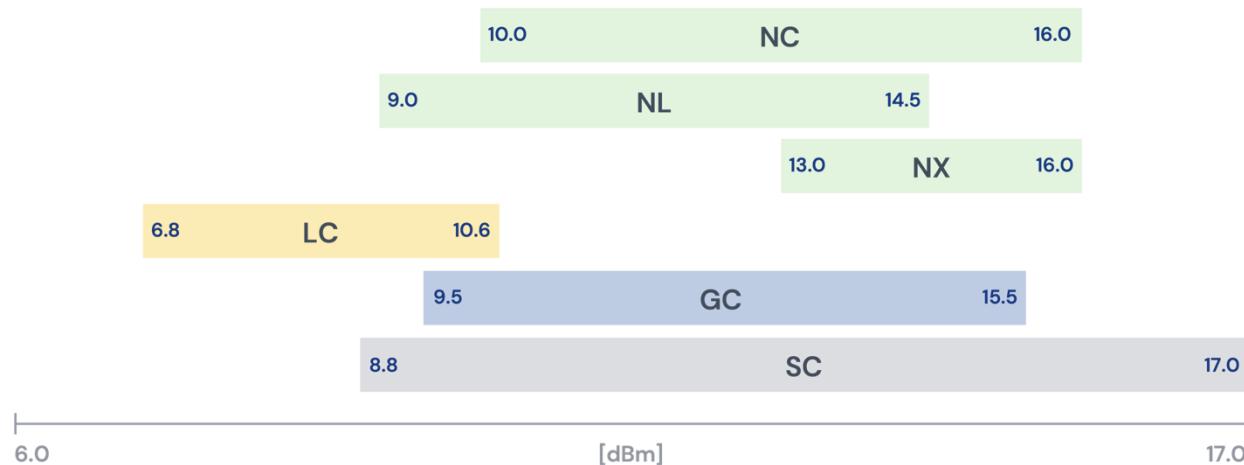
OPTICAL PARAMETER	LASER TYPE N	LASER TYPE SC	LASER TYPE GC	LASER TYPE DO	UNIT
FREQUENCY RANGE: C – BAND L – BAND X – BAND C + L – BAND (LC)	190.70 – 196.65 (1524.5 – 1572 nm)	191.12 – 196.25 (1527.6 – 1568.6 nm)	191.1 – 196.25 (1527.61 – 1568.77 nm)	228.849 (1310 ± 5 nm) +/- 1 nm user tuning Via fine tuning method Typical tuning range: +/- 2nm	THz
	186.00 – 191.1 (1568.8 – 1611.7 nm)	C – Band only	C – Band only	O-Band only	
	184.30 – 190.5 (1573.7 – 1626.65 nm)				
	186.00 – 196.65 (1524.5 – 1611.7 nm)				
CHANNEL SPACING	Continuous	Continuous	Continuous	Continuous	THz
FREQUENCY FINE TUNE RESOLUTION	1	10	1	–	MHz
FREQUENCY FINE TUNE RANGE	+/- 6	+/- 10	+/- 6	–	GHz
OPTICAL POWER TUNING RANGE (FOR ANY FREQUENCY) C – BAND L – BAND X – BAND C + L BAND	10.0 – 16.0 9.0 – 14.5 13 – 16 6.8 – 10.5	8.8 – 17.8 (17.0 dBm EOL) –	9.5 – 15.5 –	13 – 16 (Typical: 10 – 17)	dBm
SPECTRAL LINE WIDTH; FWHM INSTANTANEOUS, 3.5 µs	< 100 25 typical	< 100 (Pout < 16 dBm) < 150	< 100 25 typical	200 150 typical	kHz
FREQUENCY ACCURACY OVER LIFETIME IN 1 HOUR	+/- 2.5 0.3	+/- 1.5 0.3	+/- 2.5 0.3	+/- 5 0.1	GHz
SMSR; SIDE MODE SUPPRESSION RATIO; MEASURED WITH 0.1NM RBW	> 40 55 typical	> 40	> 40 55 typical	> 45 55 typical	dB
AVERAGE RIN	-145 (10 MHz to 22 GHz, 11 dBm)	-140 (100 kHz – 20 MHz) -150 (20 MHz – 1 GHz)	-145 (10 MHz to 22 GHz, 11 dBm)	-135 (10 MHz to 7 GHz)	dB/Hz
POWER ACCURACY OVER TUNING RANGE	+/- 0.5	+/- 0.5	+/- 0.5	+/- 1.0	dB
TUNING SPEED (MAX/TYPICAL)	15 / 10	2 / 1.0	15 / 10	15 / 3.0	s
OUTPUT CONNECTOR	FC/APC, FC/PC or SC/PC				
OUTPUT POWER ACCURACY OVER LIFETIME OUTPUT POWER STABILITY OVER 1 HOUR OVER 24 HOURS	± 1 +/- 0.03 (typ., at stable temperature) +/- 0.05 (typ., at stable temperature)				dB
OUTPUT POWER SETTING RESOLUTION	0.01	0.1	0.01	0.05	dB
OPTICAL FIBER	Polarization-maintaining PANDA type Fiber, PER > 18 dB, 25 typ.				

COMPARISON OF LASER PARAMETER

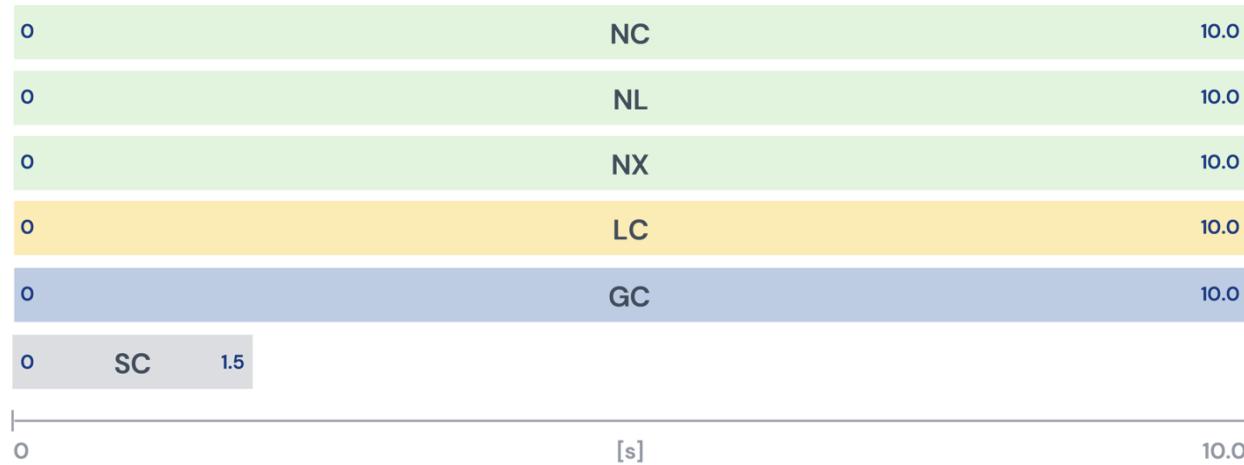
FREQUENCY/WAVELENGTH



POWER TUNING RANGE

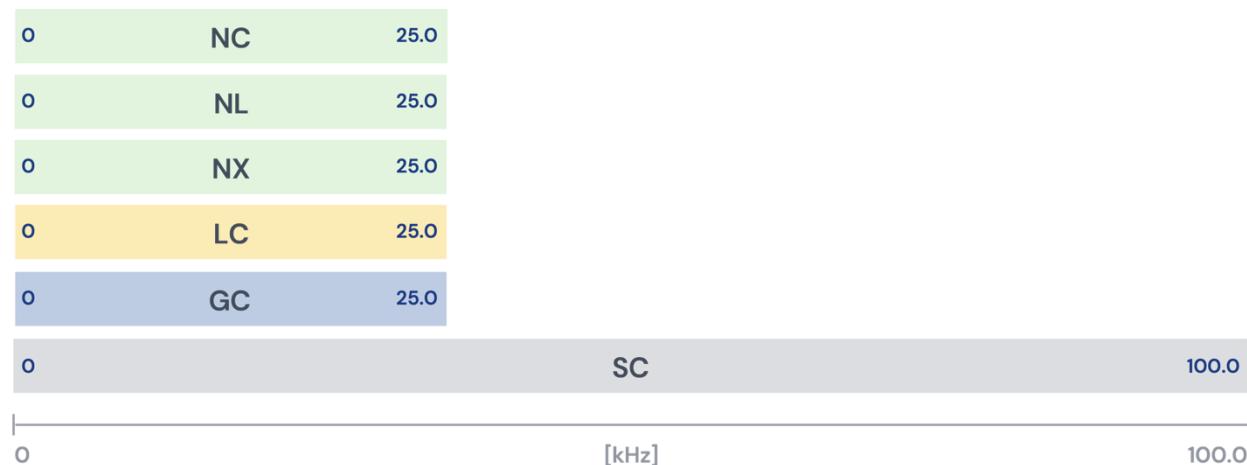


TYPICAL TUNING TIME

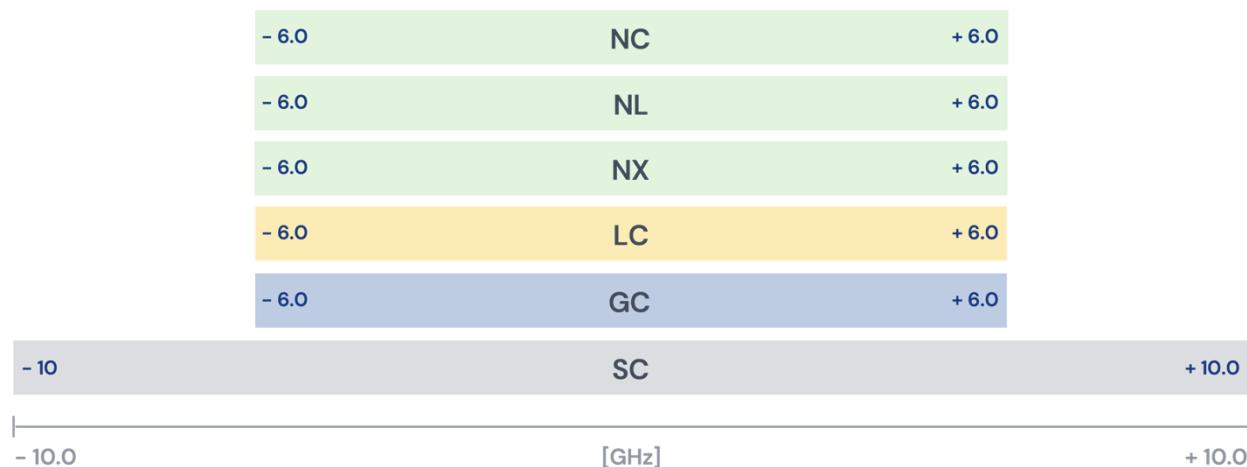


COMPARISON OF LASER PARAMETER

TYPICAL LASER LINE WIDTH



FINE TUNING RANGE



COBRITE LASER TUNING METHODS

1

COARSE TUNING

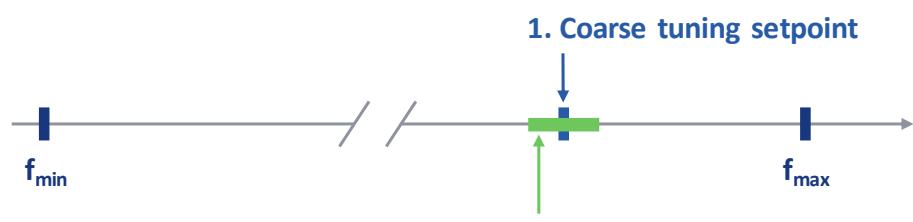
Access the full specified tuning range and tune to any desired frequency.

2

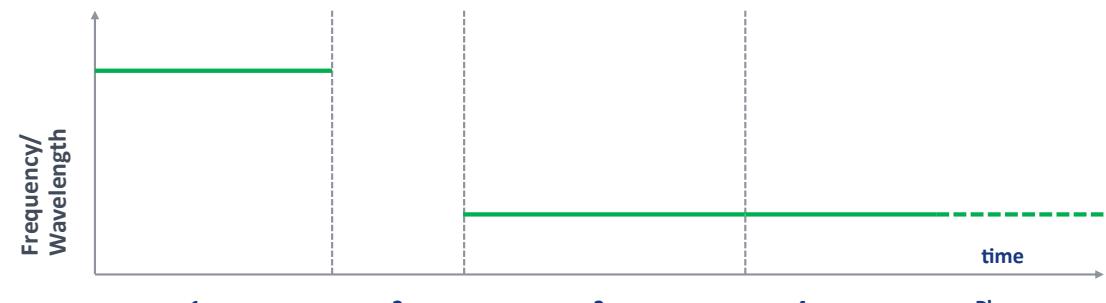
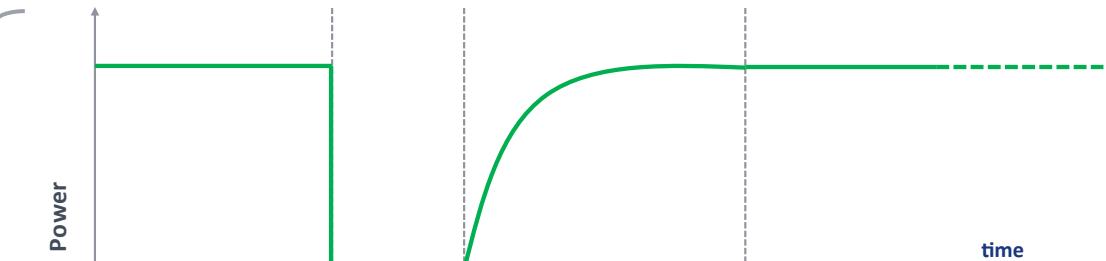
FINE TUNING

Enables precise frequency adjustment by offsetting the coarse tuning set point within a small range.

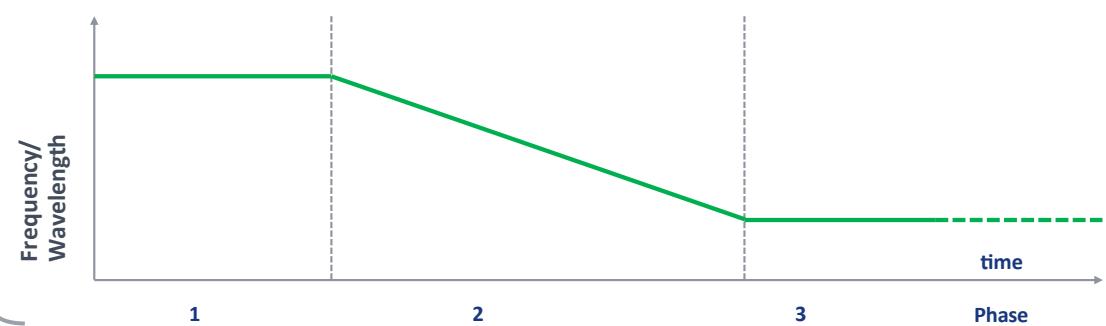
TUNING MODES



1. COARSE TUNING



2. FINE TUNING



SELECT THE RIGHT PRODUCT FOR YOUR APPLICATION:

1



COBRITE DX

The CoBrite DX Series offers a versatile, full-feature stand-alone solution, with a touchscreen user interface for intuitive operation in a chassis for up to 4 laser sources.

2



COBRITE DX2

The CoBrite DX2 Series offers a compact, full-feature chassis for 1 or 2 laser sources and an installation-free web GUI.

3



COBRITE DX1

The CoBrite DX1 Series, with its single laser source housed in a benchtop chassis, is the simplest and most cost-efficient solution within the CoBrite family.

4



COBRITE MX

The CoBrite MX series is a 19-inch compatible chassis offering the highest laser source density on the market, with up to 48 field installable laser ports. All laser ports are easily controlled from a single controller.

CHASSIS FEATURE COMPARISON

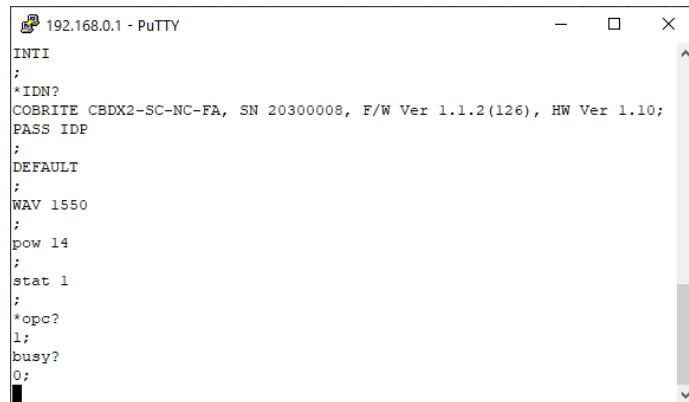
LASER TYPE	DX1	DX2	DX	MX
CHASSIS				
NUMBER OF LASER PORTS N, SC, GC TYPE	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 1 or 2	<input checked="" type="checkbox"/> 1, 2 or 4	<input checked="" type="checkbox"/> 4 per Card
NUMBER OF LASER PORTS N TYPE C+L BAND	<input type="checkbox"/>	<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 1 or 2	<input checked="" type="checkbox"/> 2 per Card
Tuning Trigger Ports Via SMA Connector	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
USB PORT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
LOCAL LASER ON/OFF BUTTON	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ETHERNET PORT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SCPI REMOTE CONTROL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
INSTALLATION-FREE BROWSER-BASED GUI	<input type="checkbox"/> GUI S/W provided	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
MULTIPLE PARALLEL USER CONNECTIONS	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TOUCH PANEL DISPLAY	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
INSTALLATION OF LASER PORTS BY USER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
AC POWER SUPPLY PROVIDED	<input checked="" type="checkbox"/> External	<input checked="" type="checkbox"/> External	<input checked="" type="checkbox"/> Integrated	<input checked="" type="checkbox"/> Integrated
19 INCH RACK MOUNTABLE	<input type="checkbox"/>	<input checked="" type="checkbox"/> 1U, half width	<input checked="" type="checkbox"/> 2U, half width	<input checked="" type="checkbox"/> 3U
LINK TO MANUAL	DOWNLOAD		DOWNLOAD	

COBRITE AUTOMATION FEATURES

COBRITE LASERS PROVIDE EXTENSIVE INTERFACES TO AUTOMATE YOUR SETUPS

CoBrite supports SCPI (Standard Commands for Programmable Instruments) based programming. It is based on standardized, ASCII based commands that are easy to understand and to implement.

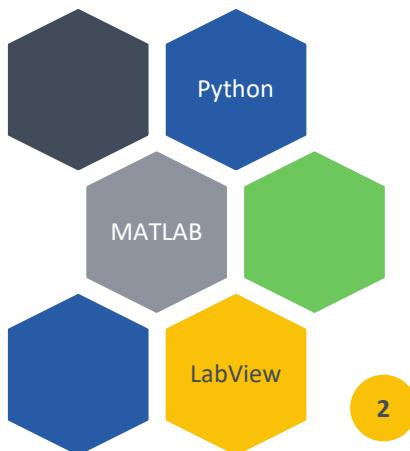
For example, "WAV?" queries the current wavelength while WAV 1550 sets the wavelength of a laser port. Its intuitive syntax and clear structure mean you can quickly learn to control and automate your devices without extensive programming knowledge.



```
192.168.0.1 - PuTTY
INTI
;
*IDN?
COBRITE CBDX2-SC-NC-FA, SN 20300008, E/W Ver 1.1.2(126), HW Ver 1.10;
PASS IDP
;
DEFAULT
;
WAV 1550
;
pow 14
;
stat 1
;
*opc?
1;
busy?
0;
```

1

SCPI COMMANDS



API REFERENCES PROVIDED

The CoBrite software package provides comprehensive reference implementations for popular automation languages such as Python, MATLAB, and LabView. These implementations are designed to help you quickly and efficiently integrate SCPI commands into your programming environment. By offering these ready-to-use examples, CoBrite ensures that you can start automating your tasks with minimal setup time, allowing you to focus on your core applications.

You can effortlessly issue SCPI commands using the HTTP protocol, making the process as simple as entering a URL in the address bar of a web browser. This method allows for straightforward and intuitive interaction with your instruments, eliminating the need for complex software installations or specialized interfaces. By leveraging the familiar and widely-used HTTP protocol, you can quickly send commands and receive responses, streamlining the process of instrument control and automation. This ease of use ensures that even those with minimal technical expertise can effectively manage and operate their devices, enhancing overall productivity and efficiency.

Example: <http://cobrite.local/scpi/wav?> Queries the wavelength setting of a CoBrite Laser port (not applicable to DX1)

3

SCPI QUERIES VIA HTTP



TUNABLE LASER SOURCES

COBRITE DX

CoBrite DX is a versatile tunable Laser light instrument that allows standalone operation by an intuitive local touch display. The chassis can be equipped with 1, 2 or 4 tunable lasers and 6 laser variants covering 1310 nm up to 1625 nm to meet your specific needs. Mixing of Laser types is possible. Remote operation via an integrated web server allows control using any browser-based device such as smartphones eliminating the need for complex software installations.

An integrated AC power supply makes this solution ultra portable while it is compatible with the 19" rackmount standard utilizing a 2U slot. Automated remote control is achieved via USB or Ethernet by SCPI command control.

KG
3 kg 6.6 lbs.

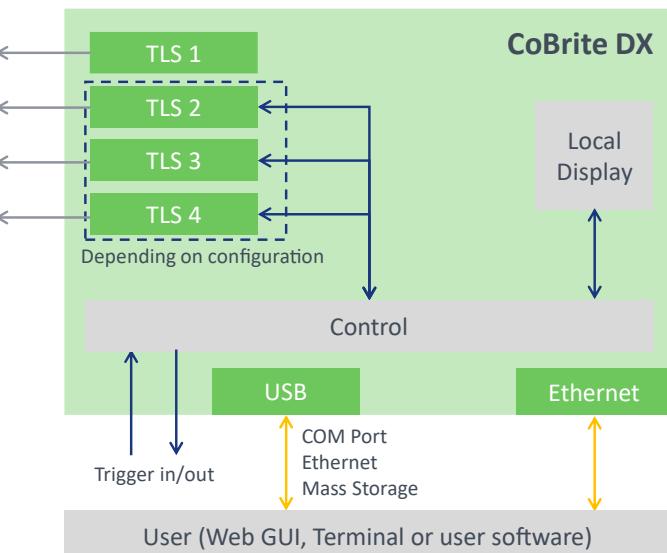
Operating Temperature
0 to 40 °C

Our standards
RoHS-compliant CE-conform Class 1M Laser Product EN 60825-1: IEC 60825-1

Size of device
89 x 206 x 235 mm 3.51 x 8.12 x 9.06 inch 2U – 19 inch rackmount standard, half width

Control
Local Display Control USB Ethernet Trigger in/out COM Port Ethernet Mass Storage User (Web GUI, Terminal or user software)

BLOCK DIAGRAM



WEB GUI

The screenshot shows the IDPHOTONICS WEB GUI interface. At the top, there are buttons for 'ALL LASERS ON' and 'ALL LASERS OFF'. The main area has tabs for 'Lasers', 'Trigger', 'System', 'Connection', 'Logging', 'ALARM', 'INTERLOCK', 'REMOTE', and 'REMOTE LOCK'. A 'User Level 1' button is also present. Below the tabs is a table with columns for Port, Laser Type, Wavelength [nm], Frequency [THz], FTF [GHz], Set Power [dBm], Actual Power [dBm], Laser, and Actions. The table shows two entries: 1-1-1 GC with wavelength 1568.773 nm, frequency 191.1000 THz, FTF 9.50 GHz, set power 9.56 dBm, actual power 9.56 dBm, and 1-1-2 GC with similar values. Buttons for 'On' (green), 'BUSY' (yellow), and 'SETTINGS' are shown for each entry. At the bottom of the table are buttons for 'SETTINGS LASER 1', 'DEVICE SETUP', and 'TURN ALL LASERS OFF'.

TOUCH GUI

The screenshot shows the IDPHOTONICS TOUCH GUI interface. At the top, there is a 'REMOTE' button. The main area has fields for 'WL' (1553.329 nm), 'Freq.' (193.0000 THz), 'FTF' (0 GHz), and 'Power' (15.9 dBm). Below these are buttons for 'SETTINGS LASER 1', 'DEVICE SETUP', and 'TURN ALL LASERS OFF'. The bottom right corner shows a small inset with the text '1553.329' and '1 15.91 dBm'.



TUNABLE LASER SOURCES

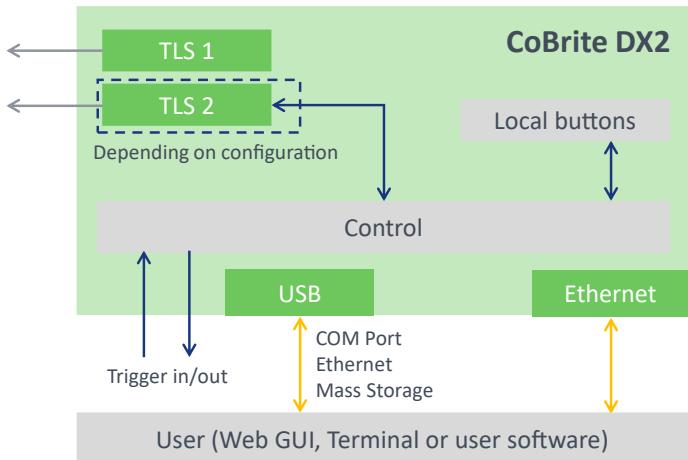
COBRITE DX2

The CoBrite DX2 can host either one or two CoBrite tunable laser light sources, making it a versatile solution for various applications like coherent transmitters and local oscillators. It features a plug-and-play setup, an installation-free, web-based graphical user interface (GUI) and compact size. With a wide range of laser options available, from budget-friendly multipurpose models to high-end narrow linewidth sources, there is a CoBrite DX2 tailored to meet your requirements. CoBrite DX2 is compatible to the 19" rackmount standard utilizing and utilizes a half width 1U slot.

KG	
Weight	
1.3 kg 2.9 lbs.	45 x 136 x 179 mm 1.77 x 5.35 x 7.04 inch 1U, half width
Operating Temperature	Our standards
0 to 40 °C	RoHS-compliant CE-conform Class 1M Laser Product EN 60825-1: IEC 60825-1

WEB GUI

BLOCK DIAGRAM





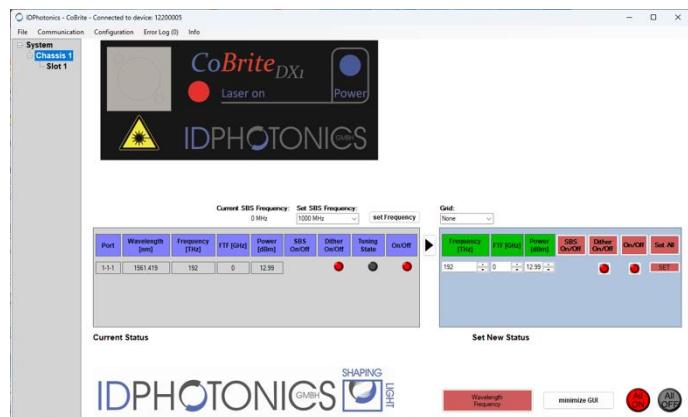
TUNABLE LASER SOURCES

COBRITE DX1

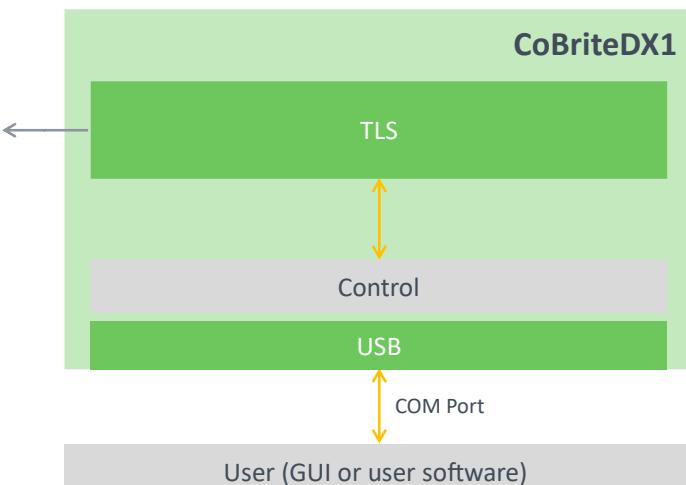
The CoBrite DX1 hosts one CoBrite tunable laser source, suitable for various applications like coherent transmitters or local oscillators. It features simple setup and compactness, while being the most cost-effective CoBrite option. With a selection of laser variants available, spanning from budget-friendly multipurpose models to high-end narrow linewidth sources, there is a CoBrite DX1 tailored to suit your needs.

	Weight
0.5 kg	
1.1 lbs.	
	Size of device
32 x 82 x 150 mm	
1.3 x 3 x 6 inch	
	Operating Temperature
0 to 40 °C	
	Our standards
RoHS-compliant CE-conform Class 1M Laser Product EN 60825-1: IEC 60825-1	

WEB GUI



BLOCK DIAGRAM





CoBrite MX CBMA 48

TUNABLE LASER SOURCES

COBRITE MX

The CoBrite MX series is a 19-inch mainframe-based system that uses slide-in cards, each housing up to 4 CoBrite lasers. This setup offers flexibility to the user to adjust to any required channel count in the field. Scalable in the field, from 2 lasers to up to 48 lasers within a single platform, the CoBrite MX provides a solution for various needs – from low channel count testing to full DWDM channel grid emulation applications. Two chassis variants available with 24 or 48 laser port capacity.



Weight

CBMA 24: 4 kg / 8.8 lbs.
CBMA 48: 8kg / 17.6 lbs.



Size of device

345 x 152 x 380 mm
13 x 6 x 15 inch
482 x 152 x 540 mm
19 x 6 x 21 inch
3U – 19 inch
rackmount standard



Operating Temperature

0 to 40 °C



Our standards

RoHS-compliant
CE-conform
Class 1M Laser Product
EN 60825-1: IEC 60825-1

CBMA24

This mainframe is designed for low to medium channel counts and hosts up to 6 cards that allows to for up to 24 lasers in a compact chassis.

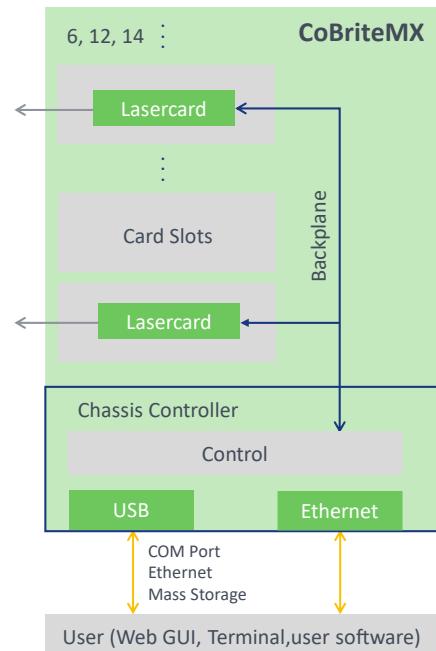
CBMA48

Is the core mainframe for demanding applications as it hosts up to 12 cards with 48 lasers. For applications requiring more than 48 laser ports, extensions via multiple CBMA48 chassis is possible.

WEB GUI



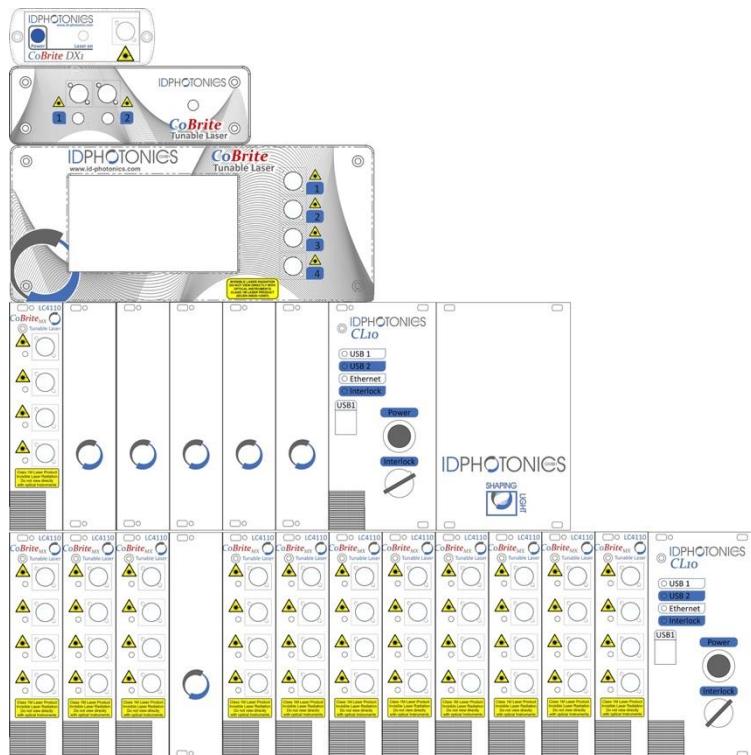
BLOCK DIAGRAM



DEVICE PARAMETER

DEVICE PARAMETER	DX1	DX2	DX	MX (CBMA24)	MX (CBMA48)		
OPERATING TEMPERATURE	0 to 40 °C non-condensing						
STORAGE TEMPERATURE	-20 °C to 60 °C non-condensing						
SIZE OF DEVICE (H X W X D) 19 INCH RACKMOUNT	32 x 82 x 150 mm (1.3 x 3 x 6 inch) -	45 x 136 x 179 mm (1.77 x 5.35 x 7.04 inch) 1U, half width	89 x 206 x 235 mm (3.51 x 8.12 x 9.06 inch) 2U, half width	345 x 152 x 380 mm, (13 x 6 x 15 inch) 3U	482 x 152 x 540 mm, (19 x 6 x 21 inch) 3U		
WEIGHT	0.5 kg (1.1 lbs.)	1.3 kg (2.9 lbs.)	3 kg (6.6 lbs.)	4 kg (8.8 lbs.)	8kg (17.6 lbs.)		
POWER SUPPLY	External, included 100 - 240 VAC, 500 mA, 50/60 Hz, 12 VDC, 1.5 A input at unit		100-240 VAC, 50/60 Hz, 10 A, 150 W (CBMA24) – 300 W (CBMA48)				
CARD CAPACITY	-	-	-	6 slide-in cards	12 slide-in cards		
LASER PORT CAPACITY	1	1, 2	1, 2, 4	2 to 24	2 to 48		
PORTS	USB	USB, Ethernet		1x Ethernet back, 1x Ethernet front, 1x USB front			
CONTROL	Installer GUI provided	Installation free, browser based pictographic GUI, SCPI style remote control commands					
AUTOMATION	SCPI style remote control commands						
LASER SAFETY INTERLOCK	Interlock located at rear, Software based interlock			Key located in front, Software based interlock			

COMPARISON OF DIMENSIONS



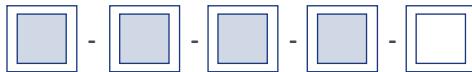
CONFIGURE COBRITE DX

NUMBER OF LASERTYPE PORTS

1, 2 or 4

ORDER CODE KEY

CBDX-



LASERTYPE PORTS

- NC: Narrow Linewidth, C-Band, extended Band
- NL: Narrow Linewidth, L-Band
- NX: Narrow Linewidth, extended L-Band
- GC: Narrow Linewidth, C-Band, standard-Band
- SC: Standard Linewidth, C-Band
- LC: Narrow Linewidth C+L-Band, max. 2 ports per unit
- DO: Narrow Linewidth, O-Band
- NN: Not Equipped

CONNECTOR TYPE

- FA: FC/APC
- FP: FC/PC
- SP: SP/PC



19 INCH RACKMOUNT ACCESSORY KIT

CBDX-ACC-RM-



NUMBER OF CHASSIS

- 1: 1 CHASSIS @ 2U
- 2: 2 CHASSIS @ 2U

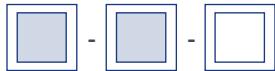
CONFIGURE COBRITE DX2

NUMBER OF LASERTYPE PORTS

1 or 2

ORDER CODE KEY

CBDX2-



LASERTYPE PORTS

- NC: Narrow Linewidth, C-Band, extended Band
- NL: Narrow Linewidth, L-Band
- NX: Narrow Linewidth, extended L-Band
- GC: Narrow Linewidth, C-Band, standard-Band
- SC: Standard Linewidth, C-Band
- LC: Narrow Linewidth C+L-Band, max. 1 port per unit
- DO: Narrow Linewidth, O-Band
- NN: Not Equipped

CONNECTOR TYPE

- FA: FC/APC
- FP: FC/PC
- SP: SP/PC



19 INCH RACKMOUNT ACCESSORY KIT

CBDX2-ACC-RM-



NUMBER OF CHASSIS

- 1: 1 CHASSIS @ 1U
- 2: 2 CHASSIS @ 1U

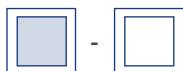
CONFIGURE COBRITE DX1

NUMBER OF LASERTYPE PORTS

1

ORDER CODE KEY

CBDX1-1-



LASERTYPE PORTS

- NC: Narrow Linewidth, C-Band, extended Band
- NL: Narrow Linewidth, L-Band
- GC: Narrow Linewidth, C-Band, standard-Band
- SC: Standard Linewidth, C-Band

CONNECTOR TYPE

- FA: FC/APC
- FP: FC/PC



CONFIGURE COBRITE MX

1

CHASSIS

Choose the right chassis for your application to match your requirement for features and supported laser types.



CBMA24

2

LASER CARDS

Select the laser source you need for your application.
For products supporting multiple ports, mix variants as required.



CBMA48

ORDER CODE KEY: 2 OR 4 LASER PORTS PER CARD

CBMX- 

LASERTYPE PORTS

NC: Narrow Linewidth, C-Band, extended Band
NL: Narrow Linewidth, L-Band
NX: Narrow Linewidth, extended L-Band
GC: Narrow Linewidth, C-Band, standard-Band
SC: Standard Linewidth, C-Band
LC: Narrow Linewidth, C+L-Band, max. 2 ports per card
NN: Not Equipped

CONNECTOR TYPE

FA: FC/APC
FP: FC/PC
SP: SP/PC

19 INCH RACKMOUNT ACCESSORY KIT FOR CBMA24

CBMA24-ACC-RM

CONTACT

info@id-photonics.com
id-photonics.com
Phone: +49-89-201 899 16

FURTHER RESOURCES

- [DOWNLOAD MANUAL](#)
- [DOWNLOAD MANUAL DX1](#)
- [APPLICATION NOTES](#)
- [DOWNLOAD CENTER](#)

CONFIGURE ONLINE

Utilize our online configuration tool to customize your CoBrite for your specific application and easily request a quotation. Get started now to tailor your solution and receive a personalized quote!



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