

LSS



MasterPort 2 PSU

Universeller Netzwerkknoten mit 4x 24 V/10 A Power DMX

The LSS MasterPort 2 PSU is a network node and RDM proxy for lighting networks. The device converts Ethernet protocols into DMX512-A. The data can be merged from up to four different sources and output in up to four DMX universes. The LSS MasterPort 2 PSU also supports Zero Configuration Networking with broadcast domains and VLAN as well as the multicast DNS protocols mDNS and DNS-SD.

DMX data can be output by the LSS MasterPort 2 PSU as a pure data signal and/or power supply with data signal. In addition to the control data, this Power DMX signal provides a 24 VDC /10 A power supply for lighting technology. Each Power DMX connection has adjustable current monitoring with warning and switch-off threshold. As an ordering option, all DMX and Power DMX connections can also be implemented on the rear.

The device can be completely set locally via a 20x4 character LED display. A powerful menu system is available for this purpose, which is operated intuitively using the encoder wheel. The display itself can be switched off, as can the signal LEDs on the front.

The LSS MasterPort 2 PSU can also be fully configured using the LSS configuration software ConfigStudio. The local menu system and configuration software are constantly being further developed and adapted to growing requirements.

Firmware updates can be installed via ConfigStudio. The latest update files can always be found on the LSS website.

The RDM functionality can be switched on for each Out port. Different interval times can be set for RDM discovery. Incremental discovery can also be carried out in background mode. The collected data from the connected RDM devices can be shown on the display or also transmitted via RDM over Ethernet.

The LSS MasterPort 2 PSU is equipped with extensive log functionality for troubleshooting. Message priorities and log destinations (e.g. Telnet or Syslog) and up to 32 log sources can be selected.

The LSS MasterPort 2 PSU is available as a built-in or mobile device for various applications and locations. Depending on the device, the power supply can be provided via normal mains voltage for the entire device or via a separate power supply for the CPU and Power DMX connections. With the separate power supply, the CPU and the pure DMX connections can be operated via PoE. The power supply for the Power DMX connections must then be realized via a central power supply or switching network.

Technische Daten

General

Standards	USITT 1990, DIN 56930-2, ANSI E1.11, ANSI E1.20, ANSI 1.37-1(2012), ANSI 1.37-2(2021), ANSI 1.37-7(2019)	
Ports	Front side:	4x 5-pin XLR, potentialgetrennt (DMX) 4x 4-pin XLR, potentialgetrennt, 10A belastbar (PowerDMX)
	Back side:	4x 3-pin connector RM3,81 Phoenix for DMX (Option) 4x 4-pin connector RM3,5 Würth for PowerDMX (Option), 10A max. 1x 3-pin connector RM5,08 Phoenix for power supply 2x 3-pin connector RM5,00 Würth for PSU-Voltage, 20A belastbar 1x RJ45 according to IEEE 802.3af for PoE-Ethernet

DMX

DMX protocol	DMX512-A	
Baud rate	250 kbps	
Termination	Factory set internaly	
Send (DMX-Out)	Start code:	0 (Light), CCh (RDM)
	Protocol length:	Start code + 2...512 Values
	Minimum protocol time:	22,4 ms
	Sent protocols / s:	3...44
	Break length:	90...42280 µs (settable)
	Mark After Break:	10...42280 µs (settable)
	Delay after Start code:	25 µs (if Frame rate is smaller than 44)

Ethernet

Speed:	10 MBit/s, 100MBit/s; Autonegotiation
Duplex mode:	Auto-MDI/MDIX
Notification:	Link-LED, Data-LED, Speed and Duplex mode will be shown in the diaplay
Light protocols:	Art-Net 4 (ArtisticLicence), AVAB-IPX (AVAB, transtechnik, LDDE,..), AVAB/UDP (transtechnik), ShowNet (Strand Lighting) sACN (ANSI E1.31 R2018), sACN DD Priority-per-Channel, RDM-Net ANSI E1.33 (2019)
Further Network protocols:	ARP, TCP/IP, IPX, UDP, IGMPv2, Syslog, mDNS, Telnet

Receive	Maximum packet rate:	>1000/s (with 1 light frame per packet)
	Throughput delay	4 µs ... 22,7 ms

Cable cross-sections ports on back side

	Rigid in mm ²	Flexibel in mm ²	Ferrule in mm ²	
			with plastic sleeve	without plastic sleeve
DMX	0,14...1,5	0,14...1,5	0,25...1,5	0,25...0,5
Power DMX	0,08...1,3	0,08...1,3	Bis 1,5	-
Power supply CPU	0,14...2,5	0,14...2,5	0,25...2,5	0,25...1,5
Power supply PSU	0,21...3,31	0,21...3,3	Bis 2,5	-

Protection class

Built-in appliances	IP00 / SK 3
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Umgebungstemperatur und Luftfeuchte

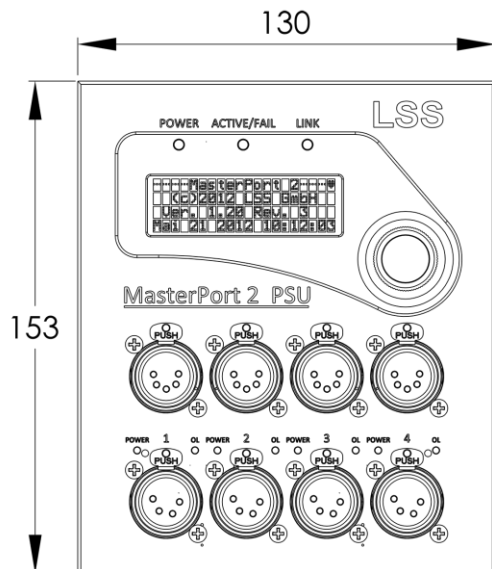
Temperature:	0 °C - +40 °C (Operation and storage)
Humidity	20 – 90%, non-condensing
RoHS	Confirm

Material

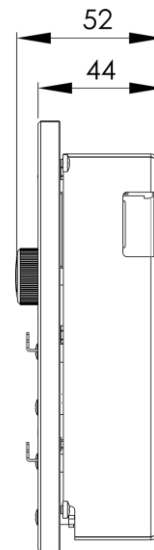
Front panel	Aluminium, blue powder coated
Protective cage	1 mm Aluminium, blank

MasterPort 2 PSU Built-in device

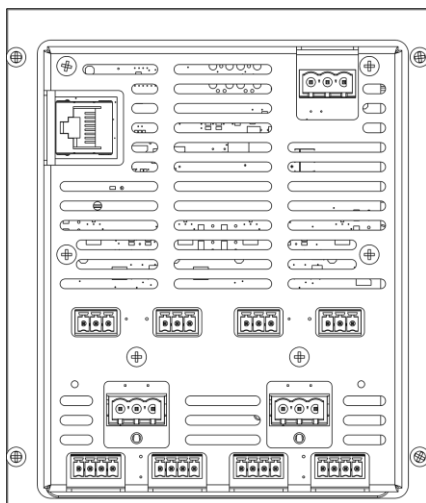
LSS MasterPort 2 PSU for installation in offset boxes, data cabinets, LSS multifunctional channel 180 x 120, LSS VK profile 155 or other housings. The device is available with rear DMX and Power DMX connections.



Front view



Side view



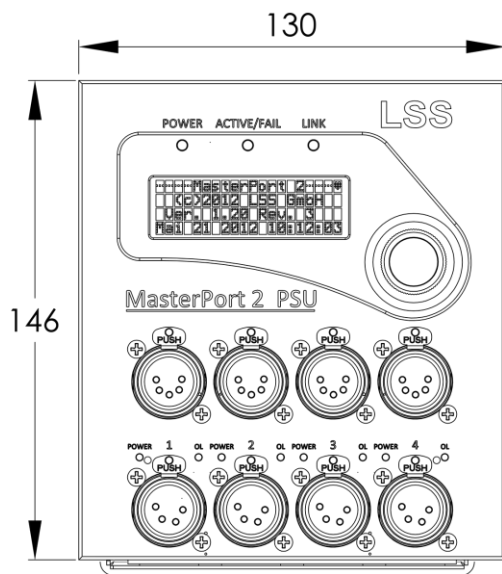
Back view with optional connectors

Technical specifications

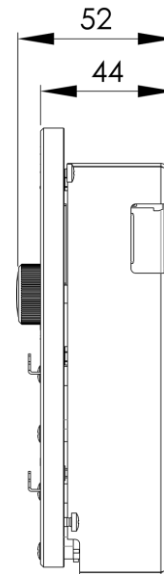
Dimension (W x H x D)	130 x 153 x 68 mm with Encoder
	130 x 153 x 44,5 mm without Encoder (all dimensions without connectors)
Weight	650 g
Order number	5063 without rear DMX and Power DMX connectors
	5263 with rear DMX and Power DMX connectors

MasterPort 2 PSU for LSS Multifunctional channel 250 x 140

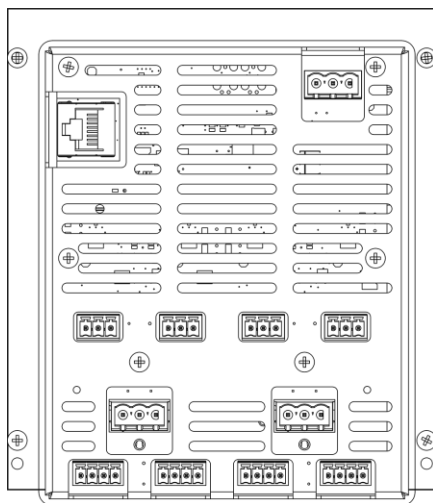
LSS MasterPort 2 PSU with shortened front panel for installation in the LSS multifunctional channel 250 x 140. The device is available with rear-mounted DMX and Power DMX connections.



Front view



Side view



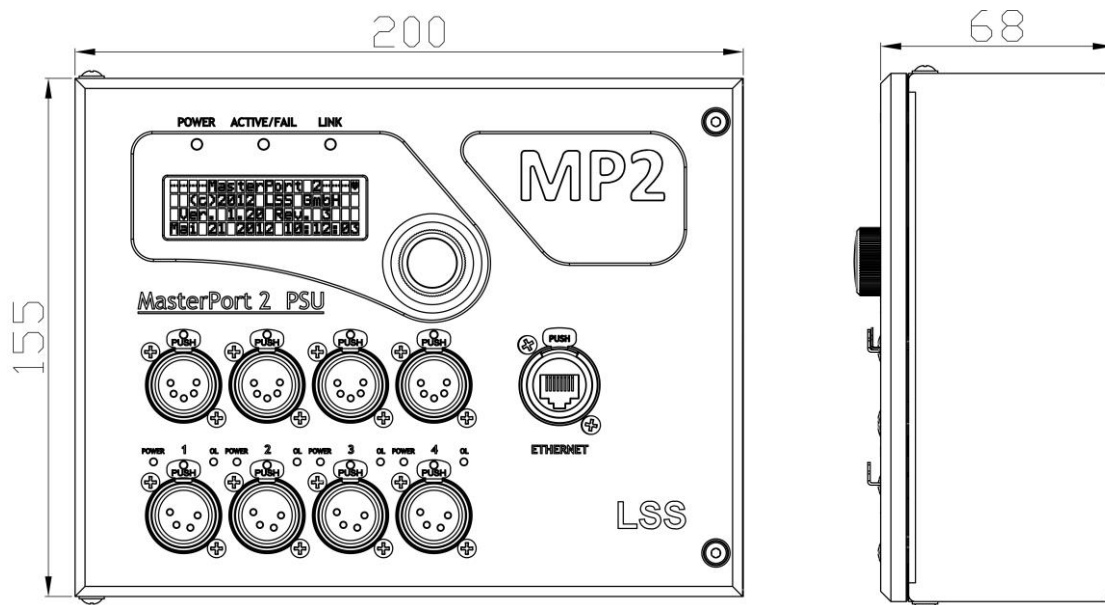
Back view with optional connectors

Technical specifications

Dimensions (W x H x D)	130 x 146 x 68 mm with Encoder
	130 x 146 x 44,5 mm without Encoder (all dimensions without connectors)
Weight	640 g
Order number	5063 without rear DMX and Power DMX connectors
	5263 with rear DMX and Power DMX connectors

MasterPort 2 PSU zur Wall mounting

LSS MasterPort 2 PSU with housing and Ethernet connection on the front for mounting on walls and other uneven surfaces or for raising from the ground. The power supply can only be provided by an external power supply.

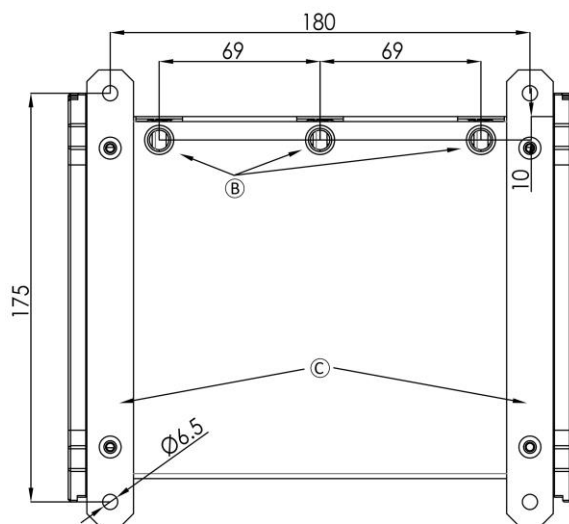
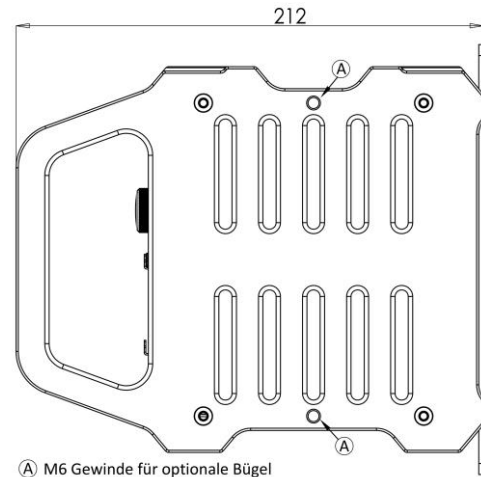
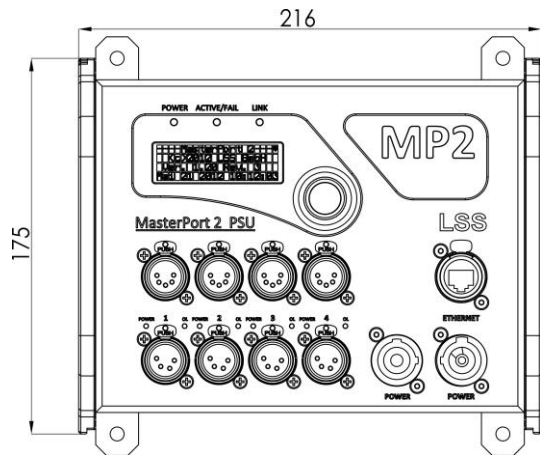


Technical specifications

Dimensions (W x H x D)	200 x 155 x 76 mm with Encoder 200 x 155 x 68,2 mm without Encoder
Power Supply	External 48 V DC No internal Power supply possible!
Weight	ca. 3000 g
Order number	5063 Only with frontal DMX and Power DMX connectors available.

MasterPort 2 PSU portable

The LSS MasterPort 2 PSU portable is a portable device for decentralized use. The device can be integrated into lighting networks or used as an independent power supply.



- (B) Befestigungspunkte Traversenmontage, 3x M10 Gewinde
 (C) optionale Wandhalterung, 3 mm Stahlblech

The LSS MasterPort 2 PSU portable can be attached to trusses, walls etc.. The device has various mounting points and optional mounting accessories.

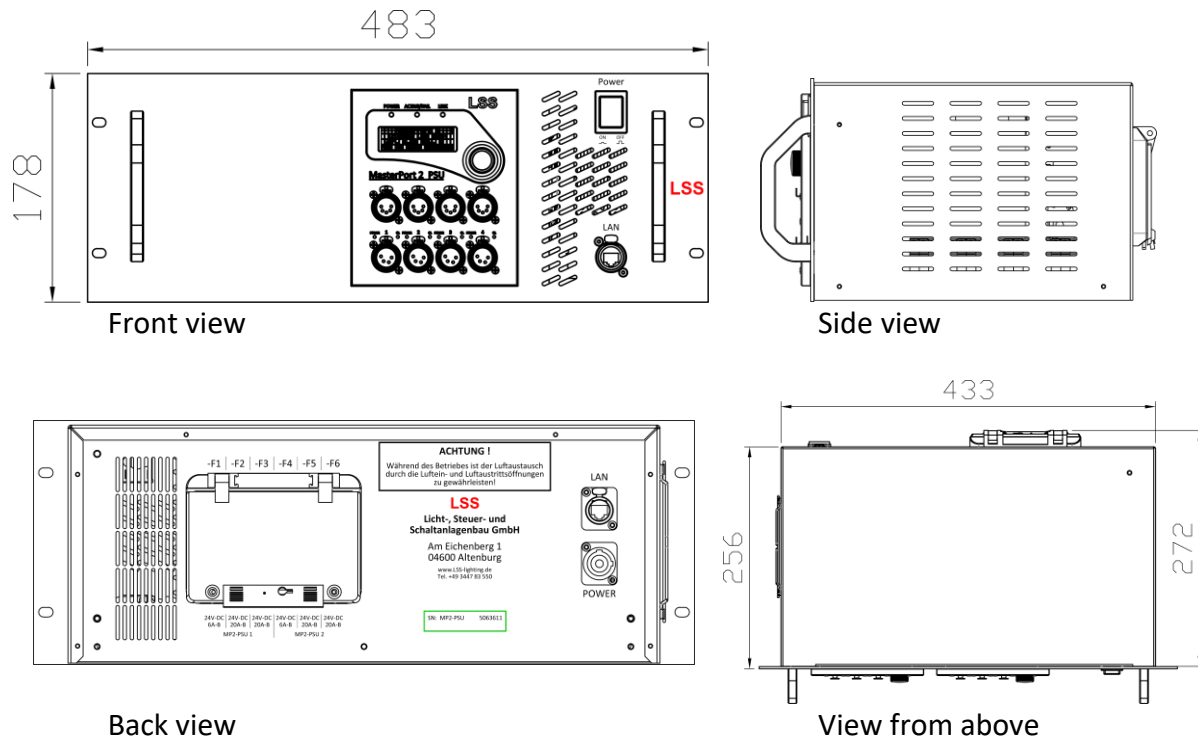
Technical specifications of the implementation

Material	Side panels: Aluminium, black anodized (RAL 9005) Gehäuse: 1 mm steel, black
Power supply	230 V AC with internal Switching power supply
Dimensions (W x H x D)	216 x 175 x 212 mm
Weight	ca. 4500 g
Protection class	IP20/SK1
Optional Accessories	Wall bracket, bracket, screw-in pipe hooks
Order number	5063

MasterPort 2 PSU RM for 19" Rack systems

The LSS MasterPort 2 PSU RM is a compact device unit consisting of a MasterPort 2 PSU, power supply and Ethernet switch. The device is available either as a 40 A variant with one or as an 80 A variant with two LSS MasterPort 2 PSUs.

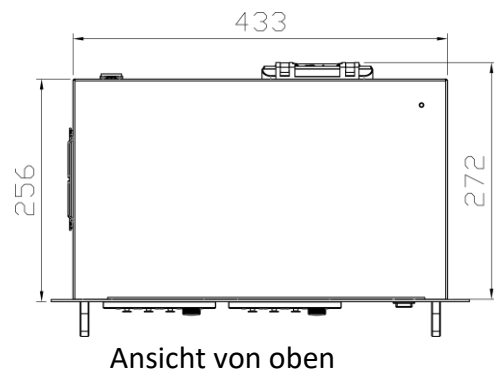
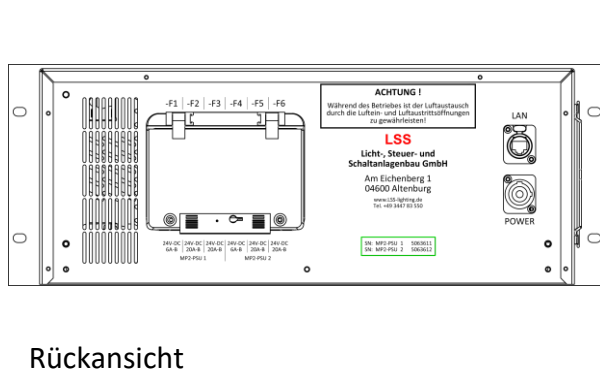
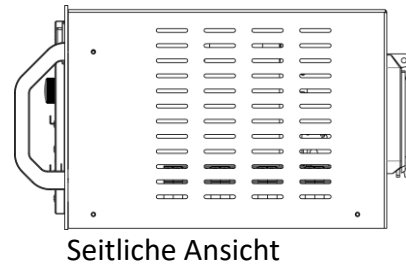
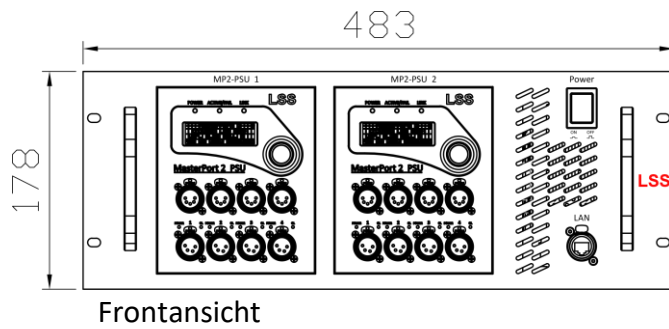
MasterPort 2 PSU RM 40A



Technical specifications

19"-Panel	1,5 mm Steel, black powder coated (RAL 9005)
Cooling	Temperature-controlled housing fan
Ethernet	2x RJ45 (Front and back)
Network switch	Internal
Power Supply	Neutrik powerCon® blue 230 V AC
Output current	4x 10 A
Device fuse	on the rear under a transparent actuating flap
Protection class	IP20/SK1
Dimensions (W x H)	483 x 178 mm, 19" x 4 HE
Installation depth	Min. 273 mm
Weight	ca. 3000 g
Order number	5063

MasterPort 2 PSU RM 80 A



Technische Spezifikationen

19" Panel	1,5 mm Steel, black powder coated (RAL 9005)
Cooling	Temperature-controlled housing fan
Ethernet	2x RJ45 (Front and back)
Network switch	Internal
Power supply	Neutrik powerCon® blue 230 V AC
Output current	8x 10 A
Device fuse	on the rear under a transparent actuating flap
Protection class	IP20/SK1
Dimensions (W x H)	483 x 178 mm, 19" x 4 HE
Installation depth	Min. 273 mm
Weight	ca. 3600 g
Order number	5063