

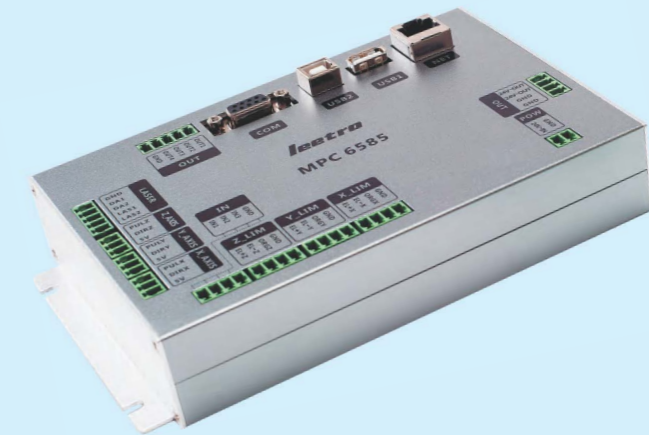
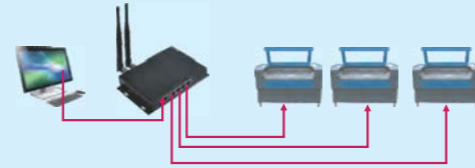
# MPC6585 NEW

Laser, 3-axis

MPC6585 is designed for the open-loop motion control system for the general laser machine only. It is an all new one with LAN. Based on DSP and FPGA technology, the advanced velocity look-ahead and trajectory blending algorithm ensure the velocity invariableness and transition smoothness between any two-trajectory segments during the high speed X-Y continuous trajectory motion. And therefore the perfect smoothness and precision of the machining can be easily achieved.

## Applications

Co<sub>2</sub> (analog command) tube compatible laser machine exclusively, open-loop motion control system



## Features

- Both servo and stepper motor supported
- Break-point resume
- Pulse frequency up to 2MHz
- RS232 ModBus Protocol
- Output secured by dual-CH
- Dual-laser-head supported
- Up to 2-CH independent power analog output
- Virtual print
- LAN networking, supported by router

## Laser Control Functionality

### Motion Control

- High precision interpolation, circular interpolation resolution under 0.5 pulse

### For CO<sub>2</sub> tube

- Laser ON, TTL compatible
- Laser Command: analog 0-5V, 0-10V with module STD0510

### Power

- 24VDC, 2A

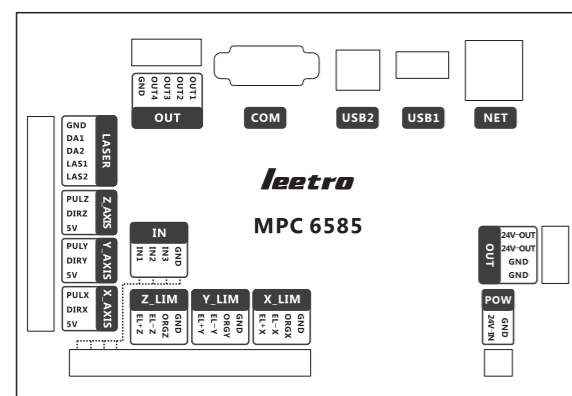
### Software Environment

- Windows 2000/XP/VISTA/7/8/8.1/10 (32 and 64-bit)
- Bundled with application software, LaserCut6.1 (dongle not required)

### Working Environment

- Temperature: 0-60°C
- Humidity: 5-90%, non condensing

## The Connection Pin Definition



Group	Pin	Definition
POW	24V-IN	Power Supply, 24V+ (Input)
	GND	Power Supply, GND (Input)
X_AXIS	PULX	X-axis Pulse
	DIRX	X-axis Direction
	5V	Power Supply, 5V+
Y_AXIS	PULY	Y-axis Pulse
	DIRY	Y-axis Direction
	5V	Power Supply, 5V+
Z_AXIS	PULZ	Z-axis Pulse
	DIRZ	Z-axis Direction
	5V	Power Supply, 5V+

Group	Pin	Definition
LASER	GND	Laser GND
	DA1	Laser Power Control ONE
	DA2	Laser Power Control TWO
	LAS1	Laser On/Off Control ONE
	LAS2	Laser On/Off Control TWO
	GND	Limit GND (24V)
X_LIM	ORGX	X-axis Original (Home)
	EL-X	X-axis Limit-
	EL+X	X-axis Limit+
	GND	Limit GND (24V)
Y_LIM	ORGX	Y-axis Original (Home)
	EL-X	Y-axis Limit-
	EL+X	Y-axis Limit+
	GND	Limit GND (24V)
Z_LIM	ORGX	Z-axis Original (Home)
	EL-X	Z-axis Limit-
	EL+X	Z-axis Limit+
	GND	Limit GND (24V)

Group	Pin	Definition
IN	IN1	Signal Input ONE, Pedal
	IN2	Signal Input TWO, Uncapping Protection
	IN3	Signal Input THREE, Water Chilling
	GND	Input GND (24V)
OUT	OUT1	Signal Output ONE, Air-blow
	OUT2	Signal Output TWO
	OUT3	Signal Output THREE
	OUT4	Signal Output FOUR
	GND	Output GND (24V)
OUT	24V-OUT	Power Supply, 24V+ (Output)
	24V-OUT	Power Supply, 24V+ (Output)
	GND	Power Supply, GND (Output)
	GND	Power Supply, GND (Output)
COM	-	Communication Port for Operation Panel
USB1	-	USB Master, to Flash Memory Disk
USB2	-	USB Slave, to the PC
NET	-	LAN port, to the PC/Router

## Order List

Order Code	Model	Description	Qty (pc)	Approx. Size (mm)	Net Weight(Kg)	Type
1011.00.302	MPC6585	Motion Control Board (dongle not required)	1	200*125*40	0.54	Standard
1012.00.804	PAD04A-E	Operation Panel, English	1	170*120*35	0.33	Standard
1012.01.005	COM-W4-2.5M	Cable connects MPC6585 and PAD04A-E	1	Length 2500	0.29	Standard
1012.01.000	USB-AB-3M	USB Cable	1	Length 3000	0.13	Standard
1011.00.501	STD0510	Module makes Controller working under 0-10V	1	50*40*15	0.02	Optional
1012.01.500	STD01	Module makes Single-ended to Differential	1	50*40*15	0.02	Optional