

PLC-IN20-MG01

LCLS Magnet Control PLC Crate Profile

Software

- [EPICS EtherIP Support](#)
- [PLC Ladder Logic and PanelView](#)
- [PLC Development Environment](#)

Displays

- PanelView
 - [Top Display](#)
 - [Main Panel](#)
 - [Ground Currents](#)
- EPICS Display

Hardware

- [Signal IO List](#)
- PLC Memory Map
 - [Memory Map ver 1.8](#)
 - PanelView Memory Map

Database

- mgnt_in20.db
- mgnt_in20_plc.db
- mgnt_in20_lgps.db

PLC DHCP Network Information			
Touch Panels only require the first six items			
1	Subnet	[LCLSINST	http://www.slac.stanford.edu/cgi-bin/qall?FILENAME=/afs/slac/g/scs/net/cando/node_by_subnet.lis&HEAD=3&HEADER=%3Cpre%3E&SELECT1=%20LCLSINST%20]
2	IP	specific to each plc or touch panel	
3	Default Gateway:	172.27.12.1	
4	Subnet Mask	255.255.252.0	
5	DNS	134.79.151.11	
6	WINS		
7	Domain Name	specific to each plc or touch panel	
8	Host Name	specific to each plc or touch panel	

Area	Sector 20, Klystron Gallery	
*Devices	<ul style="list-style-type: none"> • Injector/BC1 	
Rack Location	[LKG-0331	http://mdweb.slac.stanford.edu/Doc%20Control.Utilities.View%20Images.displayImage.php?img=pdf/Released/3/ei3802010110.pdf]
Node Name:	—[plc-in20-mg01	http://www.slac.stanford.edu/grp/cd/soft/ioc/iocConsole/iocConsole.html]
IP Addr	172.27.12.51	
MAC Addr	00:00:BC:33:60:65	
Manuf:	Allen-Bradley	
Crate Profile		
Slot No.	Model	Description
	[1756-A7/B	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/1756-in052_-en-p.pdf]
	[1756-PA72/C	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/1756-in078_-en-p.pdf]
0	[1756-L61/A	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/1756-um001_-en-p.pdf]
1	[1756-IB16I/A	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/1756-um058_-en-p.pdf]
2	[1756-OB16I/A	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/1756-in512_-en-p.pdf]
3	[1756-IF6I	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/1756-um009_-en-p.pdf]
4	[1756-IF6I	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/1756-um009_-en-p.pdf]
5	[1756-OF6VI	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/1756-um009_-en-p.pdf]
6	[1756-ENBT/A	http://www.slac.stanford.edu/grp/lcls/controls/global/hw/users_guides/plc/enet-um001_-en-p.pdf]

Area	Sector 24, Alcove	
Devices		
Rack Location		
Nodename	plc-li24-mg02	
IP Addr	172.27.12.???	
MAC Addr		
Manuf	Allen-Bradley	
Crate Profile		
Slot No.	Model	Description

Area	Sector 24, Klystron Gallery	
Devices		
Rack Location		
Nodename	plc-li24-mg02	
IP Addr	172.27.12.???	
MAC Addr		
Manuf	Allen-Bradley	
Crate Profile		
Slot No.	Model	Description

Area	Sector 24, Klystron Gallery	
Rack Location		
Devices	BXKIK	
Nodename	plc-li25-mg03	
IP Addr		
MAC Addr	00:00:BC:3B:A5:F4	
Manuf	Allen-Bradley	
Crate Profile		
Slot No.	Model	Description
	Backplane	1789-A17
0	1756-OF6	analog out
1	1756-IF6	analog in
2	1756-IB16	DC in
3	1756-OX8I	Relay
4		Blank
5	1756-ENBT-A	Ethernet card

Drawings	
Drawing Number	Description
WI-380-xxx-xx	EtherNet/IP to Switch
WI-380-xxx-xx	PanelView to Controller DF1 Serial Port
WI-380-xxx-xx	