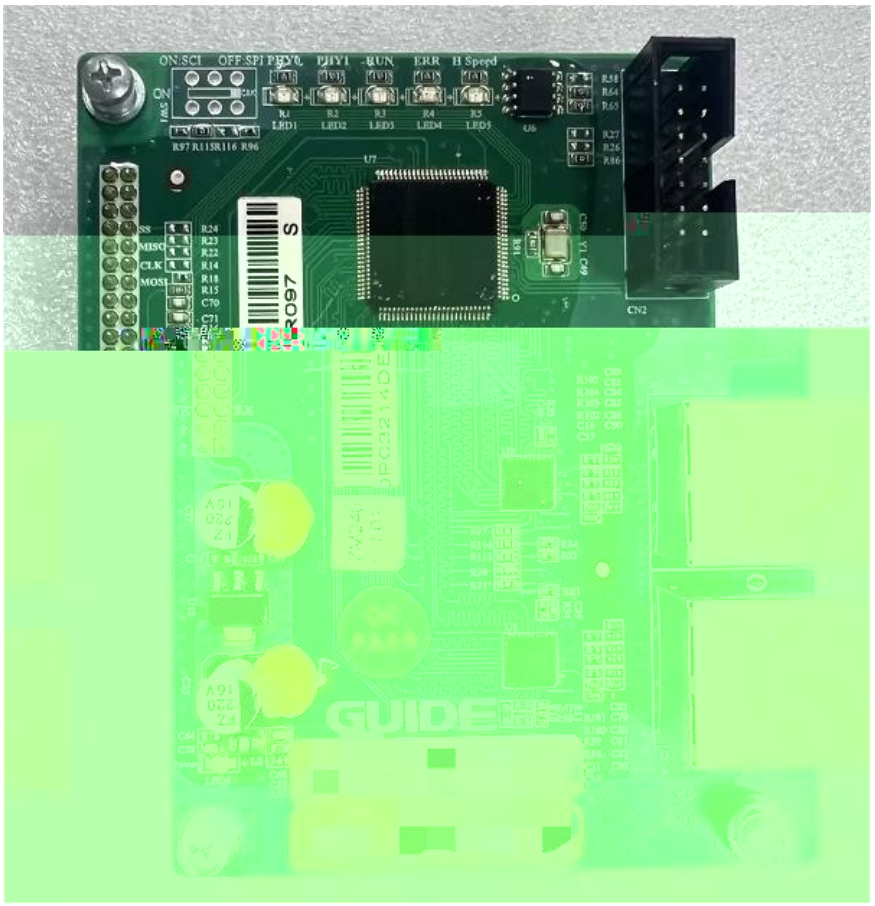
PROFINET

GDHF-APNX1



Wuhan Guide Technology Co.,Ltd.

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GDHF-APNX1

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PPO

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GDHF-APNX1

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1.

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PROFINET GDHF-APNX1

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TCP/IP

PROFINET TCP/IP IT TCP/IP IT

100 ms

RT

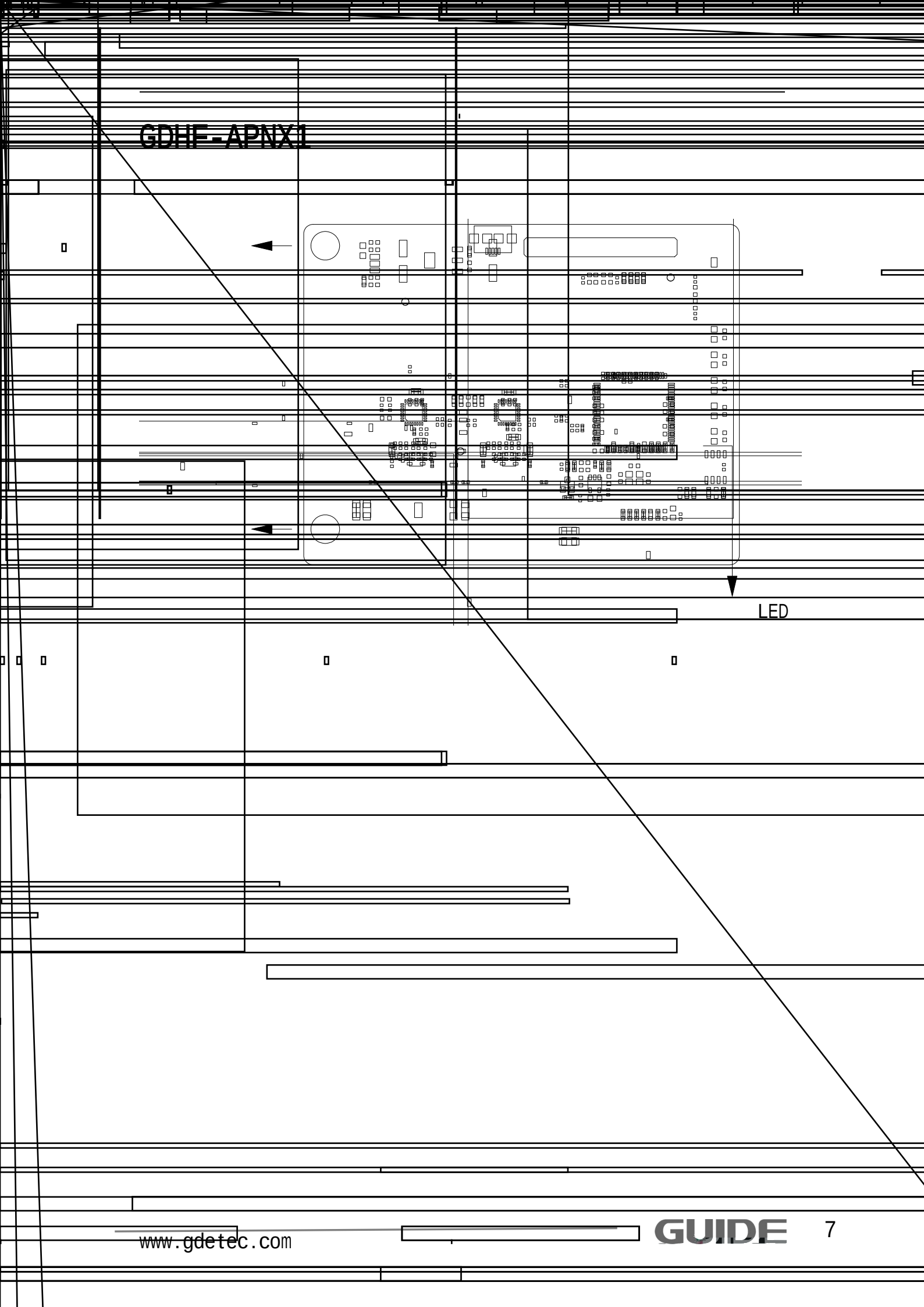
5 10ms

PROFIBUS DP

TCP/IP

PROFINET

GDHE-APNX1



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PROFINET GDHF-APNX1

J25

PROFINET GDHF-APNX1

- HF650N
- PROFINET V2.31

PROFINET GDHF-APNX1

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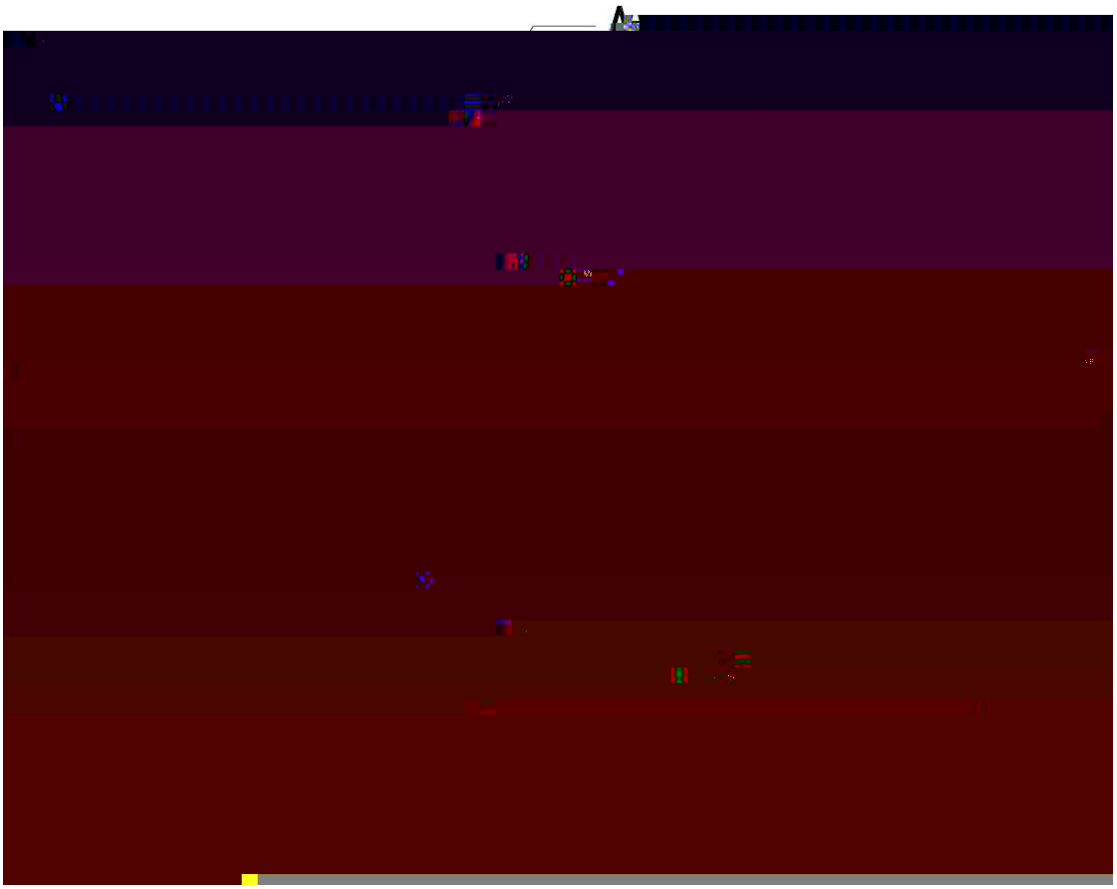
GDHF-APNX1 J25

H2 H4

- GDHF-APNX1
- GDHF-APNX1

EMC GDHF-APNX1

GDHF-APNX1 RJ45



PN

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- PROFINET

5

PROFINET

GDHF-APNX1 J2 J3

A B

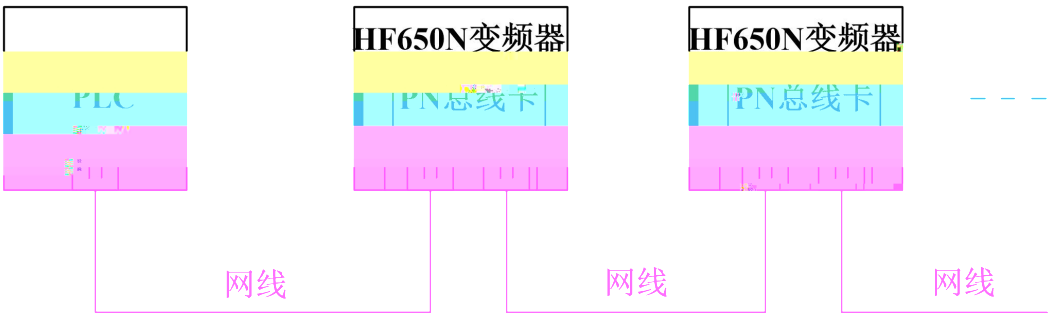
A	A
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A B

PROFINET

5E

TIA/EIA-568-B



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PROFINET GDHF-APNX1

PROFINET

GDHF-APNX1

(GSDML)

www.gdetec.com GSDML

GSDML-V2.31-GUIDE-PN.XML

PROFINET

GDHF-APNX1

PROFINET

P33.0		[0] [1]	0 1	0
P33.2		[0]PPO1 [1]PPO2 [2]PPO5	0 2	1
P33.5		[0] [1] [2] [3]	0 3	0
P33.6		ms	0 1000	50
P33.7		[0] [1]	0 1	1
P33.8		s	0.0 10.0	3.0
P33.9	[WO]		0 1000	0
P33.10	[WO]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000	0 4	0
…	…	…	…	…
P33.45	[WO]		0 1000	0

P33.46	[WO]	[0] × 1 [1] × 10 [2] × 100 [3] × 1000 [4] × 10000 [5] [%] × 1 [6] [%] × 10 [7] [%] × 100	0 4	0
…	…	…	…	…

PROFINET

[0] PROFINET

[1] PROFINET

PROFINET

PPO Parameter/Process Data Objects, /

PROFINET PPO

2 PPO

PPP05

HF650N

PLC

HF650N

PLC

PROFINET GDHF-APNX1

100Mb/s

1 PN

2 PN “_”

PN PLC

PN 5

2

P02.13	DP/PN	[0]PN	
		[1]DP	
		[2]OTHER	
P02.14	DP/PN	[0]DRAM	
		[1]SCI	SCI
		[2]SPI	SPI

PROFINET

PROFINET

PROFINET GDHF-APNX1

PROFINET PROFINET

PPO Parameter/Process Data Objects

/ PPO

PPO

	W0	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15
PPO1	W0	W1	W2	W3	W4	W5										
PPO2	W0	W1	W2	W3	W4	W5	W6	W7	W8	W9						
PPO5	W0	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13		

PPO

PLC

W0	PA_STATUS	bit		
		0	Reserved	
		1	Reserved	
		2	SAVE_to_FLASH	‘0’ ‘1’ FLASH
		3	ILLEGAL_ADDRESS	‘0’ ‘1’
		4~15	Reserved	
W1	Address	byte	[15..08]	[07..00]
		Data		
W2	0	0		
W3	Data	16		

4

5

4 5

HF650N

1

CWO.0	RUN	‘0’ ‘1’
CWO.1	RUN@REV	‘0’ ‘1’
CWO.2	AntiCrabOpen	‘0’ ‘1’
CWO.3	RESET	‘0’ ‘1’
CWO.4	External FAULT	‘0’ ‘1’ PROFINET
CWO.5	External ALARM	‘0’ ‘1’ PROFINET

CW0.6	DRIVE ENABLE	‘0’ ‘1’
CW0.7	MA/SL Switch	
CW0.8	SPD/TRQ Switch	‘0’ ‘1’
CW0.9	HOOK	‘0’ ‘1’
CW0.10	FIELD ENABLE	‘0’ ‘1’
CW0.11	Torque_Limit_Ctrl	‘0’ ‘1’ PROFINET
CW0.12 CW0.13	MOTION_CTRL	‘00’ 1 ‘01’ 2 ‘10’ 3 ‘11’ 4
CW0.14	TORQUE_ZERO	‘0’ ‘1’
CW0.15	FREE_RUNNING_STOP	‘0’ ‘1’

2

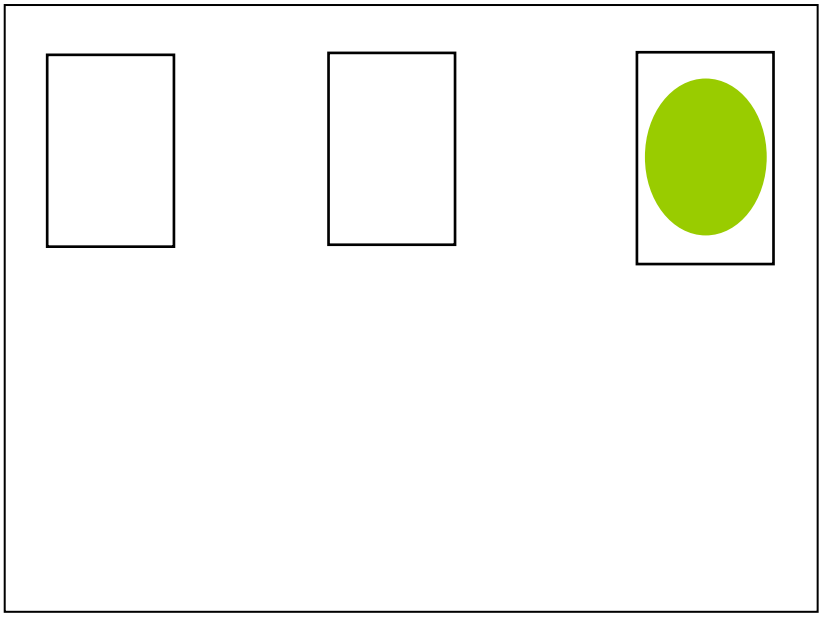
SW0.0	READY	‘0’	
		‘1’	
SW0.1	RUN	‘0’	
		‘1’	
SW0.2	FAULT	‘0’	
		‘1’	
SW0.3	MOTOR BRAKE	‘0’	
		‘1’	
SW0.4	WARNING	‘0’	
		‘1’	
SW0.5	DIRECTION	‘0’	
		‘1’	
			1
SW0.6	M_STEP0	‘0’	1
		‘1’	1
			2
SW0.7	M_STEP1	‘0’	2
		‘1’	2
			3
SW0.8	M_STEP2	‘0’	3
		‘1’	3

LED

GDHF-PN02 4 LED LED

GDHF-PN02

LED



PROFINET

16

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GSDML XML

PROFINET

GSDML

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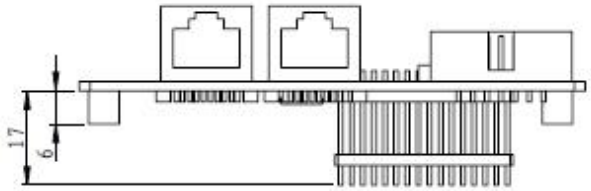
GSDML

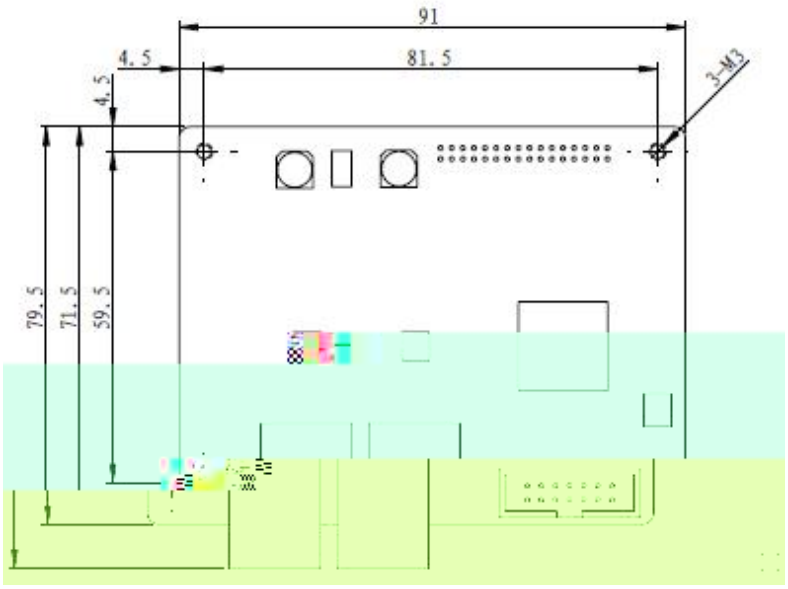
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PROFINET mm

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5E TIA/EIA-568-B

	A PROFINET	B DIN 19245 Part1	
	135~165(3~20MHz)	100~130(f>100kHz)	W
	<30	<60	pF/m
	<110	--	Ω/km
	>0.64	>0.53	mm
	>0.34	>0.22	mm^2

100

100Mbit/s

PROFINET V2.31

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