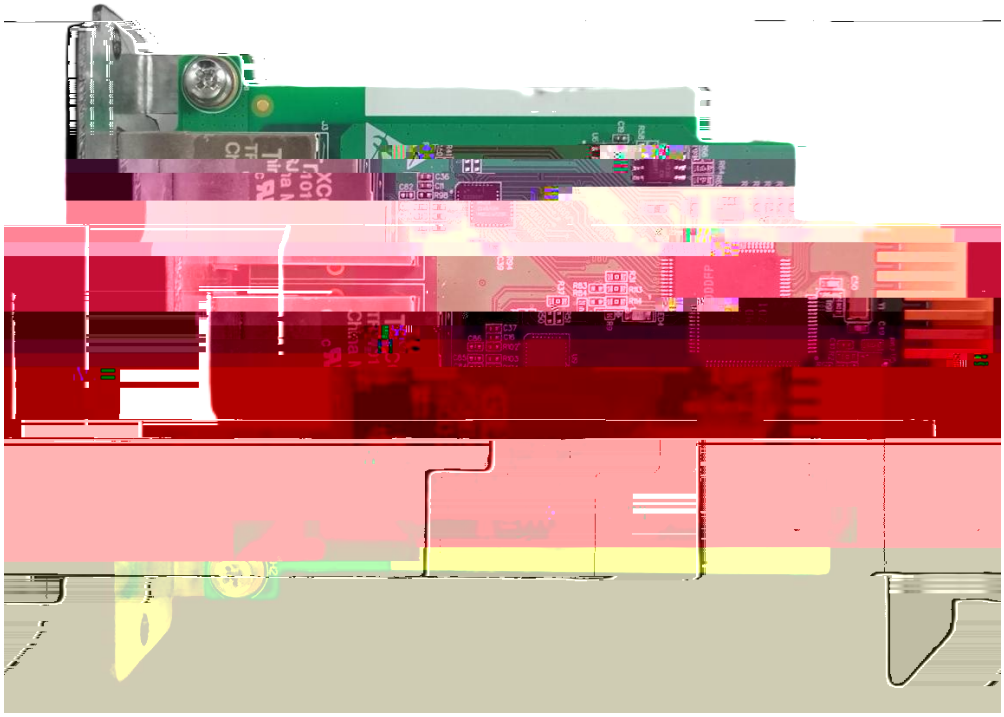
EtherCat

GDHF681N4EC01A



Wuhan Guide Technology Co.,Ltd.

EtherCat

EtherCat

EtherCat

EtherCat

PPO

LED

EtherCat

EtherCat

EtherCat

GDHF681N4EC01A

!

EtherCat GDHF681N4EC01A

EtherCat

GDHF681N4EC01A

EtherCat

GDHF681N4EC01A

EtherCat

GDHF681N4EC01A

GDHF681N4EC01A

EtherCat

GDHF681N4EC01A

EtherCat

GDHF681N4EC01A

LED

EtherCat

EtherCat GDHF681N4EC01A

HF681N

EtherCat EtherCat

EtherCat GDHF681N4EC01A

•

Σ 8 Ä

ϑ ĘC-ϽϱϽ ˛ CXCϵ̇ ΑϋΑϯ ΕΒΛ˙ˎ CXO! þ ϯ ΕΒ OCϱ

ϯ ΕΒΛ _B* ¯Α!ˎΣ XΑ!ΑЙΑ̃ € Ę ϟ˄ 8ϑ : ˯ Χϱ!ϽϱϱϽ

CXO

˙ þ ə ¯ Ͻˎ (ΛΜΚΗΠ℀DΛ• ΑÞ˛ Κ ! Ϟ Ä

˙ ¢¯Ε +) ϽϷ3+CϽ Ь ⊗ΕΘ Ο ‡ Ä

ΑΙϑ˙ > ⁝ C × Ц ¬ ϕ Ο

¢¯Ε (ΛΜΚΗΠ℀DΛ ϽˎΣϱ• Κ ⊽!ΕəϑΧ ˙+) Ϟ (ϑ ¢ΕϽ

¬ ϕ Λ

>Εə Ο ‡ h × ϯ _ΕϽΑΙϑ˙ ϯΜ…-˙-(Ε Ä

(ΛΜΚΗΠ℀DΛ ϽˎΣϱ• Κ ⊽!ΕəϑΧ ˙+) Ϟ (ϑ ¢ΕϽΑΙϑ˙

˙) Εə Ο ‡ Ε >| ∩Ľ = } Ä

˙ ! Εə Ο ‡] ϕ ˙ Ä

˙ þΕə Ο ‡] Β+ (℀Ϟ ˙ ϟ˄Ĵ Ľ∪ Ä

ϱ Ę ˙ Ä

˙ ΑΕə Ο ‡ˎ 3ˈ˙Β3℀ϟ ˯ ΕϽ0 ΣΕ÷0⁝ Ĵ Ľ∪ ΕΕ÷0⁝

˙ ϱ Εə Ο ‡ ΕϽΕΟ◌̈ ΕΕ⊙ϱ Ę ˙ Ä

Ϳ√ ÅÄ

! 5

-
- EtherCat

5

EtherCat

GDHF681N4EC01A RJ45-1

RJ45-2

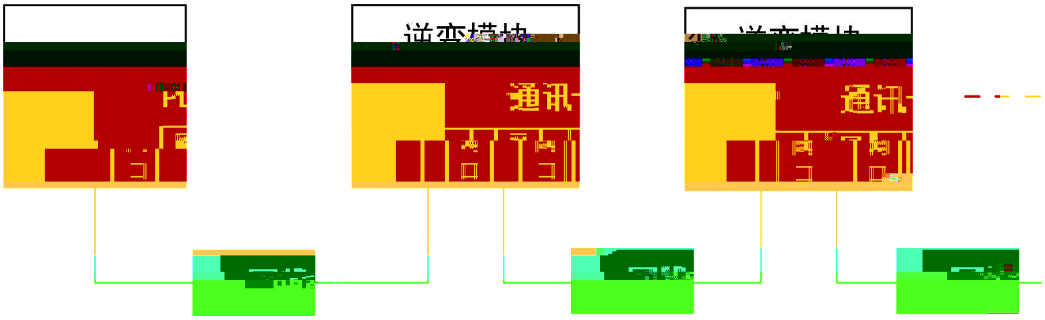
RJ45-1	A
RJ45-2	B

A B

EtherCat

5E

TIA/EIA-568-B



EtherCat

EtherCat

EtherCat

GDHF681N4EC01A

EtherCat

GDHF681N4EC01A

(ESI)

www.gdetec.com ESI

GSDML- -GUIDE-ET.XML

EtherCat

GDHF681N4EC01A

EtherCat

P33.0	[0] [1]	0	1	0
P33.2	[0]PP01 [1]PP02 [2]PP05	0	2	1

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

EtherCat

[0] EtherCat

[1] EtherCat

EtherCat

PPO Parameter/Process Data Objects, /

EtherCat PPO

2 PPO

PPP05

HF681N

PLC

HF681N Ä

òX ĖÃð ‡] EÃ* !”

i ‡ ‡ Ä

EtherCat

EtherCat GDHF681N4EC01A

EtherCat EtherCat

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		

PLC

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

PLC

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

CW0.3	RESET	‘0’
		‘1’
CW0.4	External FAULT	

CWO.13		‘ 01 ’ 2 ‘ 10 ’ 3 ‘ 11 ’ 4
CWO.14	TORQUE_ZERO	‘ 0 ’ ‘ 1 ’
CWO.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’
SW0.6	M_STEP0	1 ‘0’ 1 ‘1’ 1
SW0.7	M_STEP1	2 ‘0’ 2 ‘1’ 2

SW0.8	M_STEP2	3 ‘0’ 3 ‘1’ 3
SW0.9	M_STEP3	4 ‘0’ 4 ‘1’ 4
SW0.10	Reserved	
SW0.11	Reserved	
SW0.12	REMOTE/LOCAL	/ ‘0’ ‘1’
SW0.13	Reserved	
SW0.14 SW0.15	MOTION SEL	‘00’ 1 ‘01’ 2 ‘10’ 3 ‘11’ 4

16 1 15

EtherCat

EtherCat

16

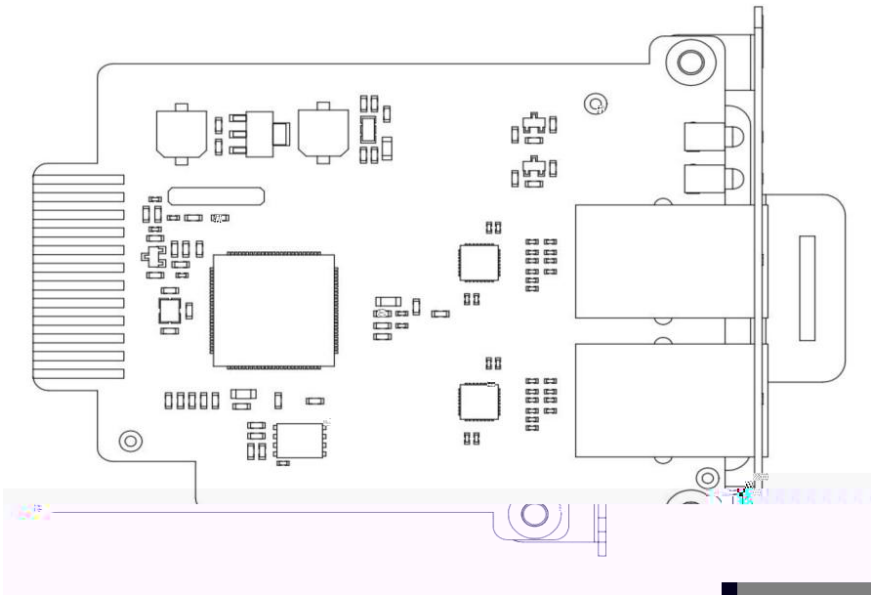
EtherCat

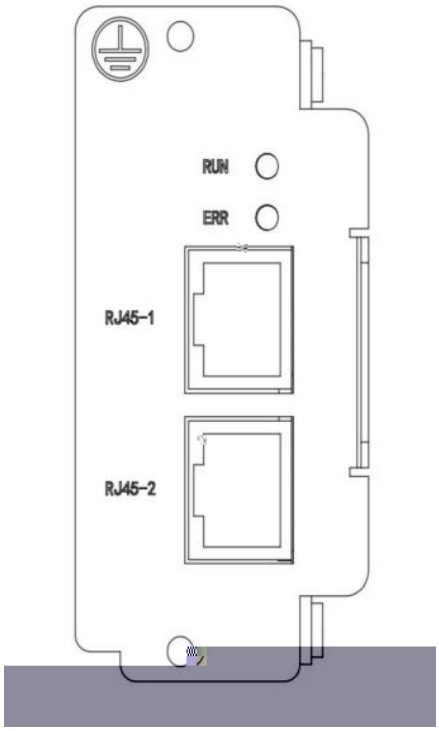
LED

GDHF681N4EC01A 2 LED

LED

Err





EtherCat

- EtherCat
-

EtherCat

EtherCat

5E TIA/EIA-568-B

	A EtherCat	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

EtherCat

Wuhan Guide Technology Co.,Ltd.

6

430223

86-027-87927230

shfw@gdetec.com

www.gdetec.com

400-0077-570

GDHF-AECX2-DOC-UM-REV1.00

2025.09