

GMT-X4 应用有独立和组合两种形式，为适配新旧版本形式，ESI 文件亦分为两种：

- 1、一个工程不能同时使用两种 ESI 文件；独立模式使用《ESI 文件-标准》；组合模式使用《ESI-标准-组合模式》
- 2、两种 ESI 文件可以混用，但需要做地址偏移处理（如有疑问，请致电公司技术支持）。

## 2.1 twincat 循环参数【name】

独立：

Name	Online	Type	Size	>Add...	In/Out	User...	Linked to
Channel_1_wt	2116.0	REAL	4.0	39.0	Input	0	
Channel_1_state	257	UINT	2.0	43.0	Input	0	
Channel_1_ERR	0	UINT	2.0	45.0	Input	0	
Channel_2_wt	2144.0	REAL	4.0	47.0	Input	0	
Channel_2_state	8449	UINT	2.0	51.0	Input	0	
Channel_2_ERR	0	UINT	2.0	53.0	Input	0	
Channel_3_wt	2145.0	REAL	4.0	55.0	Input	0	
Channel_3_state	257	UINT	2.0	59.0	Input	0	
Channel_3_ERR	0	UINT	2.0	61.0	Input	0	
Channel_4_wt	2147.0	REAL	4.0	63.0	Input	0	
Channel_4_state	257	UINT	2.0	67.0	Input	0	
Channel_4_ERR	0	UINT	2.0	69.0	Input	0	
ReadData	2116	DINT	4.0	71.0	Input	0	
WcState	0	BIT	0.1	1522.1	Input	0	
InputToggle	1	BIT	0.1	1524.1	Input	0	
State	15368	UINT	2.0	1548.0	Input	0	
AdsAddr	192.168.64.1.6.1:...	AMSADDR	8.0	1550.0	Input	0	
Function	0	UDINT	4.0	39.0	Outp...	0	
Netx_WriteAdd	0	UDINT	4.0	43.0	Outp...	0	
Netx_WriteData	0	UDINT	4.0	47.0	Outp...	0	
Netx_ReadAdd	0	UDINT	4.0	51.0	Outp...	0	

组合：

Name	Online	Type	Size	>Add...	In/Out	User...	Linked to
Combined_Wt	2110.0	REAL	4.0	39.0	Input	0	
Combined_State	33025	UINT	2.0	43.0	Input	0	
Combined_Err...	0	UINT	2.0	45.0	Input	0	
Channel_1_Wt	705.33331	REAL	4.0	47.0	Input	0	
Channel_1_State	257	UINT	2.0	51.0	Input	0	
Channel_2_Wt	529.0	REAL	4.0	53.0	Input	0	
Channel_2_State	8449	UINT	2.0	57.0	Input	0	
Channel_3_Wt	699.66669	REAL	4.0	59.0	Input	0	
Channel_3_State	257	UINT	2.0	63.0	Input	0	
Channel_4_Wt	704.33331	REAL	4.0	65.0	Input	0	
Channel_4_State	257	UINT	2.0	69.0	Input	0	
ReadData	2110	DINT	4.0	71.0	Input	0	
WcState	0	BIT	0.1	1522.1	Input	0	
InputToggle	0	BIT	0.1	1524.1	Input	0	
State	15368	UINT	2.0	1548.0	Input	0	
AdsAddr	192.168.64.1.6.1:...	AMSADDR	8.0	1550.0	Input	0	
Function	0	UDINT	4.0	39.0	Outp...	0	
Netx_WriteAdd	0	UDINT	4.0	43.0	Outp...	0	
Netx_WriteData	0	UDINT	4.0	47.0	Outp...	0	
Netx_ReadAdd	0	UDINT	4.0	51.0	Outp...	0	

## 2.2 twincat 非循环参数【name】

独立：

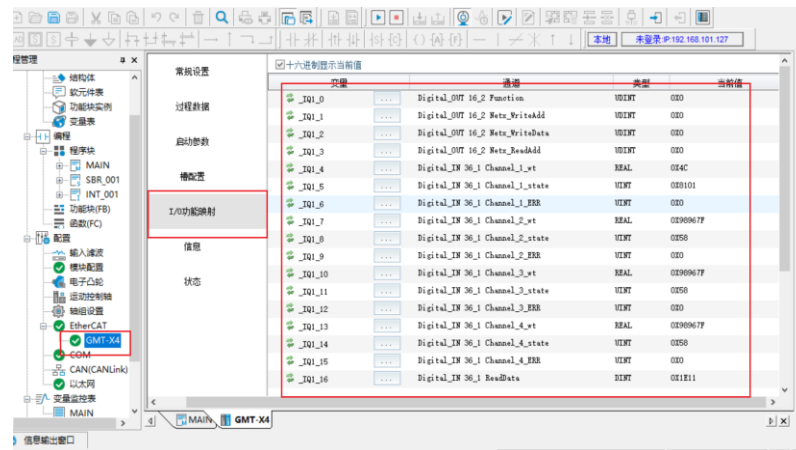
Index	Name	Flags	Value	Unit
1600:0	RxPDO_Standard	RO	> 4 <	
1601:0	RxPDO_Extend	RO	> 36 <	
1A00:0	TxPDO_Standard	RO	> 13 <	
1A01:0	TxPDO_Extend	RO	> 33 <	
1C00:0	Sync Manager Communication...	RO	> 4 <	
1C12:0	SM RX PDO Assignment	RW	> 1 <	
1C13:0	SM TX PDO Assignment	RW	> 1 <	
2000:0	RX_Standard	RO	> 4 <	
2001:0	RX_Extend	RO	> 36 <	
3000:0	TX_Standard	RO	> 13 <	
3001:0	TX_Extend	RO	> 33 <	
4000:0	Channel_1_Data	RO	> 10 <	
4000:01	AutoClear0_Powerup	RW	0x00000000 (0)	
4000:02	Trace0_Range	RW	0x00000000 (0)	
4000:03	Stable_Range	RW	0x00000001 (1)	
4000:04	Clear0_Range	RW	0x00000014 (20)	
4000:05	DigitalFilter_Level	RW	0x00000004 (4)	
4000:06	SecondFilter_Level	RW	0x00000000 (0)	
4000:07	Unit	RW	0x00000001 (1)	
4000:08	Point	RW	0x00000000 (0)	
4000:09	Division	RW	0x00000001 (1)	
4000:...	Capacity	RW	0x00002710 (10000)	
4001:0	Channel_2_Data	RO	> 10 <	
4002:0	Channel_3_Data	RO	> 10 <	
4003:0	Channel_4_Data	RO	> 10 <	

组合:

Index	Name	Flags	Value	Unit
1600:0	RxPDO_Standard	RO	> 4 <	
1601:0	RxPDO_Extend	RO	> 36 <	
1A00:0	TxPDO_Standard	RO	> 13 <	
1A01:0	TxPDO_Extend	RO	> 33 <	
1C00:0	Sync Manager Communication...	RO	> 4 <	
1C12:0	SM RX PDO Assignment	RW	> 1 <	
1C13:0	SM TX PDO Assignment	RW	> 1 <	
2000:0	RX_Standard	RO	> 4 <	
2001:0	RX_Extend	RO	> 36 <	
3000:0	TX_Standard	RO	> 13 <	
3001:0	TX_Extend	RO	> 33 <	
4000:0	Channel_1_Data	RO	> 10 <	
4000:01	AutoClear0_Powerup	RW	0x00000000 (0)	
4000:02	Trace0_Range	RW	0x00000000 (0)	
4000:03	Stable_Range	RW	0x00000001 (1)	
4000:04	Clear0_Range	RW	0x00000014 (20)	
4000:05	DigitalFilter_Level	RW	0x00000004 (4)	
4000:06	SecondFilter_Level	RW	0x00000000 (0)	
4000:07	Unit	RW	0x00000001 (1)	
4000:08	Point	RW	0x00000000 (0)	
4000:09	Division	RW	0x00000001 (1)	
4000:...	Capacity	RW	0x00002710 (10000)	
4001:0	Channel_2_Data	RO	> 10 <	
4002:0	Channel_3_Data	RO	> 10 <	
4003:0	Channel_4_Data	RO	> 10 <	

### 2.3 汇川 PLC 循环参数【名字】

独立:



组合:

