

Ethernet I/O Module Modbus Address Mapping

Ethernet I/O Solutions for Modbus TCP/IP And Ethernet/IP



P/N : [ITT-IO3620](#)



- A-1812 Modbus Address Mapping
- A-1819 Modbus Address Mapping
- A-1851/A-1855/A-1855S/A-1869/A-1860 Modbus Address Mapping

Properties

| |
|----------------------|
| Ethernet PROTOCOL |
| Ethernet DHCP Enable |
| Ethernet REMOTE PORT |

ITTelecom's Ethernet/IP, Modbus TCP I/O, and Profinet products offer a variety of solutions for remote I/O, distributed process control, and factory automation applications. Analog and discrete Ethernet I/O modules interface sensors and actuators to controllers with Modbus TCP/IP or Ethernet/IP CIP protocol network communication. EtherNet/IP (Ethernet Industrial Protocol) is traditional Ethernet combined with an industrial application layer protocol targeted to industrial automation. This application layer protocol is the Control and Information Protocol (CIP™). EtherNet/IP was created in an attempt to overcome the shortcomings of traditional IEEE 802.3 Ethernet as applied to the industrial automation world. Modbus TCP/IP uses TCP/IP and Ethernet to carry the data of the Modbus message structure between compatible devices. That is, Modbus TCP/IP combines a physical network (Ethernet), with a networking standard (TCP/IP), and a standard method of representing data (Modbus as the application protocol).



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Ethernet I/O Module

Modbus Address Mapping

A-1812

Supported Modbus Code: 01/02/05/15

| Address 0x | Item | NOR | INIT* | NOTE |
|-------------|----------------------------------|-----|-------|---------------------------|
| 00001~00002 | 0~1 DI Input Signal | R | R | |
| 00065~00066 | 0~1 Burn-out Signal | R | R | 1: Burn-out (4~20mA only) |
| 00067~00068 | 2~3 Burn-out Signal | R | R | 1: Burn-out |
| 00129~01152 | 0~1023 Auxiliary Memory (M Flag) | R/W | R/W | |

Supported Modbus Code: 03/04/06/16

| Address 4x | Item | NOR | INIT* | NOTE |
|-------------|---|-----|-------|--|
| 40001~40002 | 0~1 Current Input Value | R | R | 0~20000:0/4~20mA |
| 40003~40004 | 2~3 Current Input Value | R | R | 0~8000:-200~+600 ° C |
| 40017~40018 | 0~1 Current Output Value | R/W | R/W | 0~4000:0/4~20mA |
| 40033~40034 | Power On Analog Output Value | R | R/W | 0~4000:0/4~20mA |
| 40049~40050 | 0~1 Communication Fail Safe Analog Output Value | R | R/W | 0~4000:0/4~20mA |
| 40065~40066 | 0~1 Input Type Code | R | R/W | 0:4~20mA 1: 0~20mA |
| 40067~40068 | 2~3 Input Type Code | R | R/W | 0:PT-100 α = 0.00385 1:PT-100 α = 0.003916 2:PT-1000 α = 0.00385 3:PT-1000 α = 0.003916 |
| 40081~40082 | 0~1 Output Type Code | R | R/W | 0:4~20mA 1: 0~20mA |
| 40097~40098 | 0~1 Current Input Value | R | R | 4/0~20:4/0~20mA |
| 40099~40100 | 2~3 Current Input Value | R | R | -200~+600:-200~+600 ° C |
| 40113~40114 | 0~1 Current Input Value | R | R | 4/0~20:4/0~20mA |
| 40115~40116 | 2~3 Current Input Value | R | R | -328~+1112:-328~+1112 ° F |
| 40129~40130 | 0~1 Current Input Value | R | R | 40/0~200:4.0/0~20.0mA |
| 40131~40132 | 2~3 Current Input Value | R | R | -2000~+6000:-200.0~+600.0 ° C |
| 40145~40146 | 0~1 Current Input Value | R | R | -328~+1112:-328~+1112 ° F |
| 40129~40130 | 0~1 Current Input Value | R | R | 40/0~200:4.0/0~20.0mA |
| 40131~40132 | 2~3 Current Input Value | R | R | -2000~+6000:-200.0~+600.0 ° C |
| 40145~40146 | 0~1 Current Input Value | R | R | 40/0~200:4.0/0~20.0mA |

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|-------------|--|-----|-----|---|
| 40147~40148 | 2~3 Current Input Value | R | R | -3280~+11120:-328.0~+1112.0° F |
| 40161~40164 | 0~3 Current Input Value | R | R | 0~10000:0.00~100.00% of FSR |
| 40177 | Communication Fail Safe Time Setting Value | R | R/W | 0~65535:Disable~65535msec |
| 40178 | All DI Value | R | R | |
| 40211 | Module Name 1 | R | R | 0x18 0x12 |
| 40212 | Module Name 2 | R | R | |
| 40213 | Version 1 | R | R | 0x01 0x12 |
| 40214 | Version 2 | R | R | |
| 40215~40220 | 1~6 Mac Serial Number | R | R | |
| 40306~40369 | 0~63 Analog Auxiliary Memory (AM Flag) | R/W | R/W | 0~65535 |
| 40609~40616 | 0~3 Current Input Value | R | R | 32-bit Floating Value (IEEE754)(Float CD AB) |
| 40641~40648 | 0~3 Current Input Value | R | R | 32-bit Deg.C Floating Value (IEEE754)(Float CD AB) |
| 40673~40680 | 0~3 Current Input Value | R | R | 32-bit Deg.F Floating Value (IEEE754)(Float CD AB) |
| 40705~40712 | 0~3 Current Input Value | R | R | 32-bit Floating Value (IEEE754) (Float AB CD) |
| 40737~40744 | 0~3 Current Input Value | R | R | 32-bit Deg.C Floating Value (IEEE754) (Float AB CD) |
| 40769~40776 | 0~3 Current Input Value | R | R | 32-bit Deg.F Floating Value (IEEE754) (Float AB CD) |
| 40801~40808 | 0~3 Current Input Value | R | R | 32-bit Floating Value (IEEE754) (Float BA DC) |
| 40833~40840 | 0~3 Current Input Value | R | R | 32-bit Deg.C Floating Value (IEEE754) (Float BA DC) |
| 40865~40872 | 0~3 Current Input Value | R | R | 32-bit Deg.F Floating Value (IEEE754) (Float BA DC) |
| 40897~40904 | 0~3 Current Input Value | R | R | 32-bit Floating Value (IEEE754) (Float DC BA) |
| 40929~40936 | 0~3 Current Input Value | R | R | 32-bit Deg.C Floating Value (IEEE754) (Float DC BA) |
| 40961~40968 | 0~3 Current Input Value | R | R | 32-bit Deg.F Floating Value (IEEE754) (Float DC BA) |
| 40500~40503 | Ethernet IP | R | R/W | IP:x.x.x.x default : 192.168.1.1 |
| 40504~40507 | Ethernet MASK | R | R/W | GATEWAY: x.x.x.x Default:192.168.1.1 |
| 40512 | Ethernet MODBUS ID | R | R/W | INIT*: 0 ,NOR:1~255 |
| 40513 | Ethernet LOCAL PORT | R | R/W | 1~65535 Default :502 |

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Ethernet I/O Module

Modbus Address Mapping



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|-------------|----------------------|---|-----|-----------------------------|
| 40514 | Ethernet REMOTE PORT | R | R/W | 1~65535 Default:2000 |
| 40515 | Ethernet DHCP Enable | R | R/W | 0:ENABLE(default) 1:DISABLE |
| 40516 | Ethernet PROTOCOL | R | R/W | 0:Modbus TCP/IP(default) |
| 40518~40523 | MAC ADDRESS | R | R | EX: 00-05-5D-E8-0F-A3 |



Ethernet I/O Module

Modbus Address Mapping

| A-1819 | | | | |
|------------------------------------|----------------------------------|-----|-------|--|
| Supported Modbus Code: 01/02/05/15 | | | | |
| Address 0x | Item | NOR | INIT* | NOTE |
| 00065~00072 | 0~7 Burn-out Signal | R | R | 1: Burn-out |
| 00129~01152 | 0~1023 Auxiliary Memory (M Flag) | R/W | R/W | |
| Supported Modbus Code: 03/04/06/16 | | | | |
| Address 4x | Item | NOR | INIT* | NOTE |
| 40001~40008 | 0~7 Current Input Value | R | R | 0~20000: 0/4~20mA 0~20700: -270~+1800°C |
| 40065~40072 | 0~7 Input Type Code | R | R/W | 0: 4~20mA 1: 0~20mA 2: J(-210~760°C) 3: K(-270~1,370°C) 4: T(-270~400°C) 5: E(-270~1,000°C) 6: R(0~1,750°C) 7: S(0~1,750°C) 8: B(0~1,800°C) 9: 10K-2 Thermistor(0~+100°C) 10: 10K-3 Thermistor(0~+100°C) 11: 6.8K Thermistor(-10~+100°C) 12: 4.7K Thermistor(-10~+100°C) 13: 3.3K Thermistor(-20~+100°C) 14: 3K Thermistor(-20~+100°C) 15: 2.7K Thermistor(-20~+100°C) 16: 2.25K Thermistor(-20~+100°C) 17: 2.1K Thermistor(-30~+100°C) |

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Ethernet I/O Module

Modbus Address Mapping

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|-------------|--|---|-----|--|
| | | | | 18: 2K Thermistor(-30~+100℃) 19: 1.5K Thermistor(-40~+100℃) 20: 1K Thermistor(-40~+100℃) |
| 40097~40104 | 0~7 Current Input Value | R | R | 4/0~20:4/0~20mA -270~+1800:-270~+1800℃ |
| 40113~40120 | 0~7 Current Input Value | R | R | 4/0~20:4/0~20mA -168~+3272:-168~+3272° F |
| 40129~40136 | 0~7 Current Input Value | R | R | 40/0~200:4.0/0~20.0mA -2700~+18000:-270.0~+1800.0° C |
| 40145~40152 | 0~7 Current Input Value | R | R | 40/0~200:4.0/0~20.0mA -1680~+32720:-168.0~+3272.0° F |
| 40161~40168 | 0~7 Current Input Value | R | R | 0~10000:0.00~100.00% of FSR |
| 40177 | Communication Fail Safe Time Setting Value | R | R/W | 0~65535:Disable~65535msec |
| 40178 | All DI Value | R | R | |
| 40211 | Module Name 1 | R | R | 0x18 0x19 |
| 40212 | Module Name 2 | R | R | |
| 40213 | Version 1 | R | R | |
| 40214 | Version 2 | R | R | |
| 40215~40220 | 1~6 Mac Serial Number | R | R | |
| 40609~40624 | 0~7 Current Input Value | R | R | 32-bit Floating Value (IEEE754)(Float CD AB) |
| 40641~40656 | 0~7 Current Input Value | R | R | 32-bit Deg.C Floating Value (IEEE754)(Float CD AB) |
| 40673~40688 | 0~7 Current Input Value | R | R | 32-bit Deg.F Floating Value (IEEE754)(Float CD AB) |
| 40705~40720 | 0~7 Current Input Value | R | R | 32-bit Floating Value (IEEE754) (Float AB CD) |
| 40737~40752 | 0~7 Current Input Value | R | R | 32-bit Deg.C Floating Value (IEEE754) (Float AB CD) |
| 40769~40784 | 0~7 Current Input Value | R | R | 32-bit Deg.F Floating Value (IEEE754) (Float AB CD) |
| 40801~40816 | 0~7 Current Input Value | R | R | 32-bit Floating Value (IEEE754) (Float BA DC) |
| 40833~40848 | 0~7 Current Input Value | R | R | 32-bit Deg.C Floating Value (IEEE754) (Float BA DC) |
| 40865~40880 | 0~7 Current Input Value | R | R | 32-bit Deg.F Floating Value (IEEE754) (Float BA DC) |
| 40897~40912 | 0~7 Current Input Value | R | R | 32-bit Floating Value (IEEE754) (Float DC BA) |
| 40929~40944 | 0~7 Current Input Value | R | R | 32-bit Deg.C Floating Value (IEEE754) (Float DC BA) |
| 40961~40976 | 0~7 Current Input Value | R | R | 32-bit Deg.F Floating Value (IEEE754) (Float DC BA) |

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Ethernet I/O Module

Modbus Address Mapping

| | | | | |
|-------------|--|-----|-----|--|
| 40306~40369 | 0~63 Analog Auxiliary Memory (AM Flag) | R/W | R/W | 0~65535 |
| 40500~40503 | Ethernet IP | R | R/W | IP:x.x.x.x default : 192.168.1.1 |
| 40504~40507 | Ethernet MASK | R | R/W | GATEWAY: x.x.x.x Default:192.168.1.1 |
| 40512 | Ethernet MODBUS ID | R | R/W | INIT*: 0 ,NOR:1~255 |
| 40513 | Ethernet LOCAL PORT | R | R/W | 1~65535 Default :502 |
| 40514 | Ethernet REMOTE PORT | R | R/W | 1~65535 Default:2000 |
| 40515 | Ethernet DHCP Enable | R | R/W | 0:ENABLE(default) 1:DISABLE |
| 40516 | Ethernet PROTOCOL | R | R/W | 0:Modbus TCP/IP(default) |
| 40518~40523 | MAC ADDRESS | R | R | EX: 00-05-5D-E8-0F-A3 |
| 40222 | CJC Value | R | R | -32767 ~ +32767: -327.67 ~ +327.67 Deg.C |
| 40225 | Set CJC Offset Value | R | R/W | -32767 ~ +32767: -327.67 ~ +327.67 Deg.C Default:0 |
| 40226~40233 | Set The AI0~7 Offset Value (For Thermocouple/Thermistor) | R | R/W | -32767 ~ +32767: -327.67 ~ +327.67 Deg.C Default:0 |

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Ethernet I/O Module

Modbus Address Mapping

A-1851/A-1855/A-1855S/A-1869/A-1860

Supported Modbus Code: 01/02/05/15

| Address 0x | Item | NOR | INIT* | NOTE |
|-------------|------------------------------------|-----|-------|------|
| 00001~00016 | 0~15 DI Input Signal | R | R | |
| 00017~00032 | 0~15 DO Output Value | R/W | R/W | |
| 00033~00048 | 0~15 Power On Digital Output Value | R | R/W | |
| 00049~00064 | 0~15 Communication Fail Safe Value | R | R/W | |
| 00129~01152 | 0~1023 Auxiliary Memory (M Flag) | R/W | R/W | |

Supported Modbus Code: 03/04/06/16

| Address 4x | Item | NOR | INIT* | NOTE |
|-------------|--|-----|-------|--|
| 40177 | Communication Fail Safe Time Setting Value | R | R/W | 0~65535:Disable~65535msec |
| 40178 | All DI Value | R | R | |
| 40211 | Module Name 1 | R | R | 0x18 0x60 |
| 40212 | Module Name 2 | R | R | |
| 40213 | Version 1 | R | R | 0x01 0x12 |
| 40214 | Version 2 | R | R | |
| 40215~40220 | 1~6 Mac Serial Number | R | R | |
| 40306~40369 | 0~63 Analog Auxiliary Memory (AM Flag) | R/W | R/W | 0~65535 |
| 40500~40503 | Ethernet IP | R | R/W | IP:x.x.x.x default : 192.168.1.1 |
| 40504~40507 | Ethernet MASK | R | R/W | GATEWAY: x.x.x.x Default:192.168.1.1 |
| 40512 | Ethernet MODBUS ID | R | R/W | INIT*: 0 ,NOR:1~255 |
| 40513 | Ethernet LOCAL PORT | R | R/W | 1~65535 Default :502 |
| 40514 | Ethernet REMOTE PORT | R | R/W | 1~65535 Default:2000 |
| 40515 | Ethernet DHCP Enable | R | R/W | 0:ENABLE(default) 1:DISABLE |
| 40516 | Ethernet PROTOCOL | R | R/W | 0:Modbus TCP/IP(default) 1:Modbus UDP/IP 2.:Modbus RTU Over TCP/IP 3:Modbus RTU Over UDP/IP |
| 40518~40523 | MAC ADDRESS | R | R | EX: 00-05-5D-E8-0F-A3 |

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