

IR-712-MTCP / IR-712P-MTCP

Universal IR Learning Module
(2x IR outputs, 512x IR cmds, Non-PoE and PoE Version)

Features

- 2 IR output channels
- 1 IR learning input
- Supports 6 IR carrier frequencies: 33, 36, 37, 38, 40 and 56 kHz
- IR command capacity: 512
- Supports Ethernet interface
- Supports Modbus TCP/UDP protocol to emit IR cmds
- Provides ASCII String Command (DCON protocol) to emit IR cmds
- Built-in Watchdog
- RoHS Compliance

Introduction

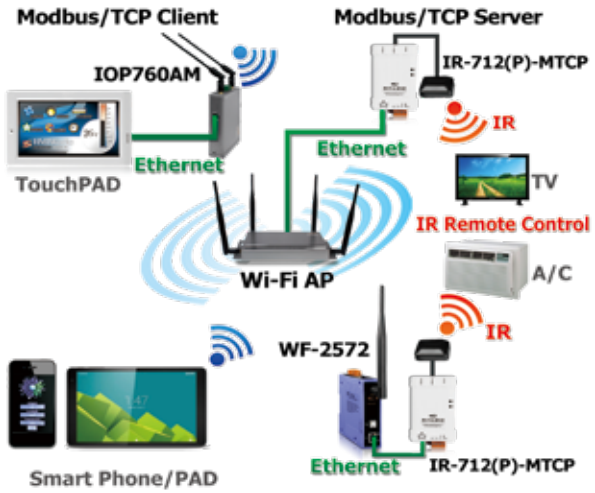
IR-712(P)-MTCP is a universal IR learning remote module which can learn IR remote commands of diverse electronic devices. IIR-712(P)-MTCP supplies 2 IR output channels for remote control on multiple devices. The accompanied Ethernet interface with Modbus TCP/UDP and DCON protocols provides flexible expansion and control on the modules. Besides, the IR utility provides users with easy configuration, learning, test and storage of IR commands. As a replacement of IR remote controls and a module that can be easily integrated with Modbus client devices (e.g. PAC, PLC, PC… etc.), IR-712(P)-MTCP is well-suited for smart home and building automation.

Specifications

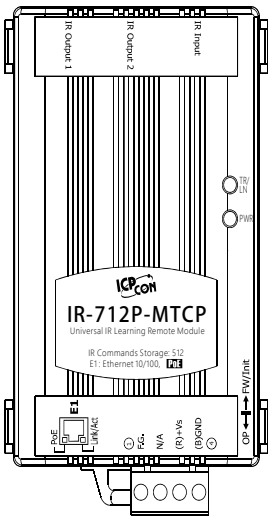
Model	IR-712-MTCP	IR-712P-MTCP
IR Interface		
IR Output Channels	2 channels with 3.5 mm audio jack	
IR Learning Input	1 channel. Supports 6 IR carrier frequencies: 33, 36, 37, 38, 40, 56 kHz.	
Ethernet Communication Interface		
Ethernet	10/100 Base-TX, 8-Pin RJ-45 x1, (Auto-negotiating, Auto-MDI/MDIX, LED indicator)	
PoE	No	Yes
Protocol	Modbus TCP/UDP, DCON (Server)	
LED Indicator		
LED	2 LEDs: TR/LN (IR Transmitting/Learning) and PWR (Power)	
Power		
Power Supply	+10 ~ +30 VDC	
Connector	4-pin (F.G., N/A, +Vs, and GND) screw terminal connecter	
PoE	-	PoE (IEEE 802.3af, Class 1)
Power Consumption	Stand by: 1.7 W 1 IR output used: 3.4 W 2 IR outputs used: 5.8 W (Max.)	
Mechanism		
Installation	DIN-Rail Mounting	
Dimensions	52 mm x 27 mm x 85 mm (WxLxH)	
Dip Switch	OP (Normal operation) and FW / Init (Firmware update / Default Communication)	
Environment		
Operating Temp.	-25 ~ 75 °C	
Storage Temp.	-30 ~ 80 °C	
Humidity	10 ~ 90% RH, non-condensing	

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Applications



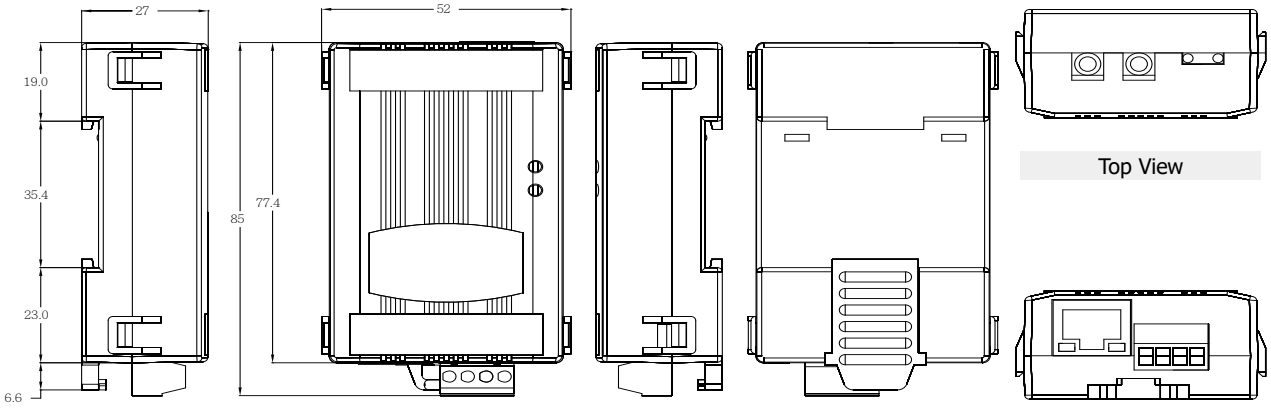
Pin Assignments



IR Interface of the IR-712-MTCP	
IR Input	IR Input
IR Output (3.5 mm audio jack)	IR Output
	IR Output

Interface	Pin
Ethernet	E1
POWER	GND
	+Vs
Frame Ground	F.G

Dimensions (Units: mm)



Ordering Information

IR-712-MTCP CR	Universal IR Learning Module (2x IR outputs, 512x IR cmds) (Ethernet) with 2x CA-IR-SH2251 emitter cables (RoHS)
R-712-MTCP-5 CR	Universal IR Learning Module (2x IR outputs, 512x IR cmds) (Ethernet) with 2x CA-IR-SH2251-5 emitter cables (RoHS)
IR-712P-MTCP CR	Universal PoE IR Learning Module (2x IR outputs, 512x IR cmds) (Ethernet) with 2x CA-IR-SH2251 emitter cables (RoHS)
IR-712P-MTCP-5 CR	Universal PoE IR Learning Module (2x IR outputs, 512x IR cmds) (Ethernet) with 2x CA-IR-SH2251-5 emitter cables (RoHS)

Accessories

CA-IR-001 CR	IR receiver cable, 3 m
CA-IR-SH1251-360 CR	Semi -sphere -headed IR receiver cable (with adhesive pad, 2.5 m)
CA-IR-SH2251-360 CR	Semi -sphere -headed IR emitter cable (with adhesive pad, 2.5 m)
CA-IR-SH2252-5 CR	Dual-headed IR emitter cable (with adhesive pad, Ø 5 mm IRED, 2.5 m)
CA-IR-SH2251-5 CR	Single-headed IR emitter cable (with adhesive pad, Ø 5 mm IRED, 2.5 m)
CA-IR-SH2252 CR	Dual-headed IR emitter cable (with adhesive pad, Ø 3 mm IRED, 2.5 m)
CA-IR-SH2251 CR	Single-headed IR emitter cable (with adhesive pad, Ø 3 mm IRED, 2.5 m)

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