

Quickset MPT Series Positioner IP Interface

Version 1.1

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1. INTRODUCTION

This document describes the IP interface of Quickset-SBC based MPT series of positioners.

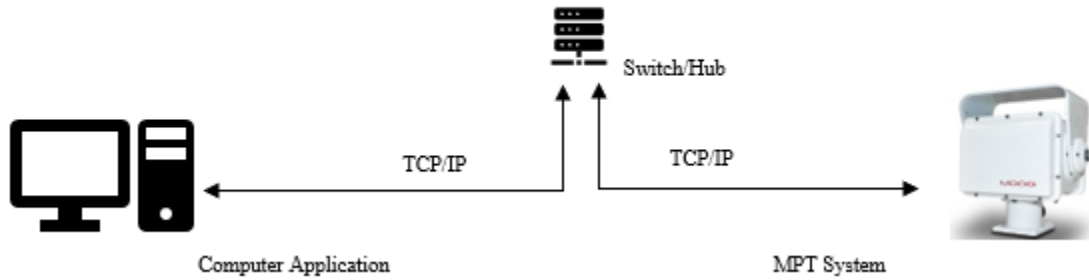


Figure 1: MPT connected to computer using TCP/IP

1.1 Terms & Definitions

Terms	Definitions
IP	Internet Protocol
SBC	Single board computer
TCP	Transmission Control Protocol

1.2 References

1. MN00630 Quickset PTZ Protocol document.

2. MPT Communication/Control Interfaces

The MPT systems provide two modes of communication/control interfaces, IP interface and Serial Communication interface. All MPT systems are provided with a harness that connects to MPT with circular Mil style connector on one end and on the other end with standard RJ-45 male, 9-Pin D connectors and other fly leads (customizable).

2.1 Connecting MPT over IP

To connect a MPT system over IP use the Quickset provided harness from the MPT's circular connector the other end of harness should have a RJ-45 male connector (clearly labelled MPT IP Communication). The default IP address of all MPT system is 192.168.1.10, this IP address can however be changed to desired IP or switched to DHCP mode, if so desired. The MPT systems have a standard web interface at port 80, which provides various configuration options for interfaces.

2.2 Communicating on MPT Control Interface TCP/IP Port 10001

Quickset provides an application called the PTZ controller that communicates with MPT systems over the TCP/IP port 10001. Similarly, a user application can also communicate with a MPT system over TCP/IP port 10001, provided the user application adheres to the Quickset PTZ Protocol MN00630 as listed in Ref 1. When connecting with MPT systems one needs to realize that it is a headless system, it doesn't have any screen or LED to indicate that it is ready. After power cycle give the MPT system a minute to come up completely, before starting any communication. Setup as per the diagram in Figure 1.

A typical setup example here assumes the user hasn't changed the default IP address of MPT.

USER APPLICATION
(e.g. 192.168.1.1:xxxx, Client)

MPT System
(192.168.1.10:10001, server mode, listener)

1. After power up the MPT system starts TCP/IP stack & listens on port 10001
2. Client opens TCP/IP socket and connects to MPT 192.168.1.10:10001
3. MPT System Accepts the connection
4. < ----- TCP Handshake Begins ----- >
4. < - - - Communication starts between the user application and MPT system - - - >
5. Send the first Jog/Status command(31h)
6. MPT responds with Jog/Status Response.



Communication goes on for all desired actions of user application as described in Ref 1. MN00630 Quickset PTZ Protocol.

Note: The PTZ protocol messages are the TCP payload only, the TCP headers and setup must come from the user application.