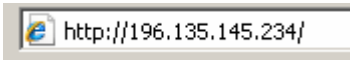
TIME_CONFIG.Source This indicates to the module what will be used as the time source.	1	GPS
	2	IRIG-B
	3	PTP (FUTURE)
	4	NTP (FUTURE)
	5	External (FUTURE)
TIME_CONFIG.PTPOutputEnable When this bit is set the module will enable PTP synchronization on Ethernet.	0	1588 PTP output is disabled
	1	1588 PTP output is enabled
TIME_CONFIG.NTPOutputEnable When this bit is set the module will enable NTP on Ethernet.	0	NTP output is disabled
	1	NTP output is enabled
TIME_CONFIG.IRIGBOutputEnable When this bit is set the module will enable IRIG-B on the coaxial interface.	0	IRIG-B-122 output is disabled
	1	IRIG-B-122 output is enabled

Web Interface

The web interface can be used from any PC that has a web browser. It will provide all the diagnostics of the module as well as each field device as shown below:

The web interface can be accessed by entering http:// IP address into the address bar of the browser as shown below:

Eg. 1756HP-TIME IP address: 196.135.145.234



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1756HP-TIME

QUICK START GUIDE

V1.00.02

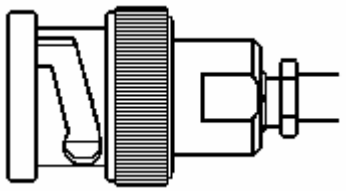
INSTALLATION

Software

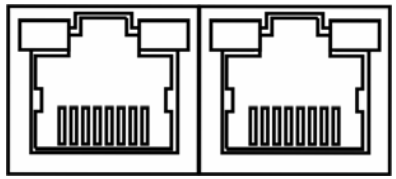
The User-Defined-Type (UDT) needed can be found in the example code. These must be copied from the Input image and copied to the Config – and Output images to make sense of the data. Please refer to the example code.

Hardware

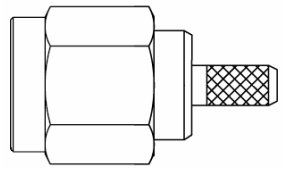
- **IRIG-B:** The module connects to the IRIG-B network using a BNC connector.



- **Ethernet:** The module requires a RJ45 connector to operate.



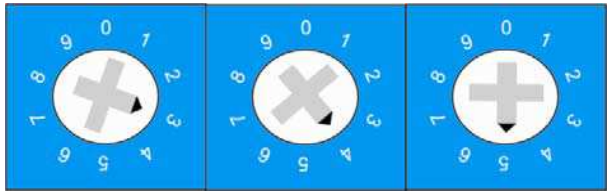
- **GPS Antenna:** The GPS antenna is connected to the module via a SMA connector.



SETUP

Ethernet Address

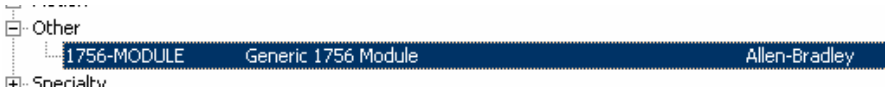
The module will have BOOTP enabled when shipped. The user can set an address via a BOOTP server or set the hardware switches to hardcode an IP address. The switches can be found on the top of the module.



- Switches set to 1 – 254: Use IP address 192.168.1.xxx
- Switches set to 888: Settings back to out-of-the-box
- Switches set to 900: Enable BOOTP

RSLogix 5000

The module must be added to the RSLogix 5000 IO tree by selecting the Generic 1756 Module as shown below:

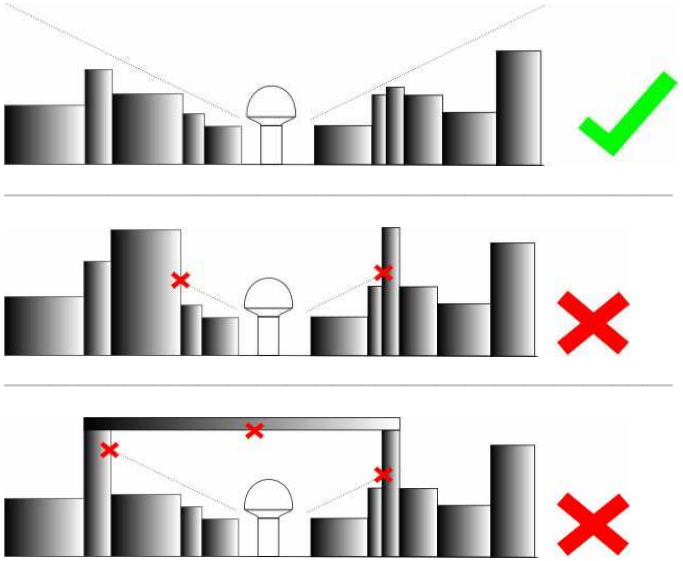


Connection Parameters

	Assembly Instance	Size	Format
Input	65	34	32-bit
Output	66	4	32-bit
Config	68	28	8-bit
RPI		**MIN** 10ms **MAX** 750ms	

Antenna Installation

The bullet antenna must be installed with a clear view of the sky (nothing obstructing the view of the antenna to the sky). If an antenna is installed with a limited view of the sky the GPS receiver will either have a low satellite lock count or will not be able to obtain lock.



OPERATION

RSLogix 5000

Time_Config	{...}	{...}		TimeConfig
Time_Config.ConfigRevNumber	0		Decimal	DINT
Time_Config.Source	0		Decimal	INT
Time_Config.PTPOutputEnable	0		Decimal	BOOL
Time_Config.NTPOutputEnable	0		Decimal	BOOL
Time_Config.IRIGBOutputEnable	0		Decimal	BOOL
Time_Config.IRIGBLockLostTx	0		Decimal	BOOL
Time_Config.PreV16Support	0		Decimal	BOOL
Time_Config.CSTMastershipEnable	0		Decimal	BOOL
Time_Config.ExternalSourceAddress	{...}	{...}	Decimal	SINT[4]
Time_Config.ExternalSourceAddress[0]	0		Decimal	SINT
Time_Config.ExternalSourceAddress[1]	0		Decimal	SINT
Time_Config.ExternalSourceAddress[2]	0		Decimal	SINT
Time_Config.ExternalSourceAddress[3]	0		Decimal	SINT
Time_Config.NTPUpdateInterval	0		Decimal	DINT
Time_Config.AdvancedConfig	0		Decimal	DINT
Time_Config.DemoWeekNumber	0		Decimal	DINT
Time_Config.DemoWeekSeconds	0		Decimal	DINT

The user must update the parameters in the TIME_CONFIG UDT (provided in the example code) to what is needed from the application.