

# Magnum 10ETS Configuration Guide

**Magnum 10ETS** base unit, configurable substation hardened, managed terminal server. Each unit provides 10 modular slots for up to 36 Ethernet and serial port combinations. Unit offers dual hot-swappable power supplies. Optional IRIG-B module. Incl. MNS-DX license.



## Step 1. Choose 10ETS chassis and power input type

Model #	Description, Base Unit of Magnum 10ETS Terminal Server
10ETS-HSPHH	Front mount with 2 "H" AC/DC (90-250) power slots
10ETSR-HSPHH	Reverse mount with 2 "H" AC/DC (90-250) power slots
10ETS-HSPHL	Front mount w/ 1 "H" AC/DC (90-250) & 1 "L" 24/48VDC slot
10ETSR-HSPHL	Reverse mount w/ 1 "H" AC/DC (90-250) & 1 "L" 24/48VDC slot
10ETS-HSPLL	Front mount with 2 "L" 24/48VDC slots
10ETSR-HSPLL	Reverse mount with 2 "L" 24/48VDC slots
10ETS-H	Front mount with AC/DC power (90-250V)
10ETSR-H	Reverse mount with AC/DC power (90-250V)
10ETS-L	Front mount with 24/48VDC power
10ETSR-L	Reverse mount with 24/48VDC power
10ETS-AC	Front mount w/ worldwide AC power (100-240V)
10ETSR-AC	Reverse mount w/ worldwide AC power (100-240V)
10ETSP-HSPLL	Front mount with 2 "L" 24/48VDC slots; <b>Supports PoE</b>
10ETSP-L	Front mount with 24/48VDC power; <b>Supports PoE</b>
10ETSPR-HSPLL	Reverse mount with 2 "L" 24/48VDC slots; <b>Supports PoE</b>
10ETSPR-L	Reverse mount with 24/48VDC power; <b>Supports PoE</b>

## Step 1b. If "HSP" base unit with hot swap power supplies is selected, choose up to two power supply modules.

HSPM-H	AC or DC power (90-250V)
HSPM-L	24/48 DC power (22-60V)
HSPM-BLNK	Blank cover for one hot-swap power supply slot

## Step 2 Choose Ethernet modules for Slot A or Slot B (may be blank)

Module #	100Mb ports
10TS2-RJ45	Two 10/100Mb RJ-45 ports
10TS2-HSFP	Two 100Mb SFP Open Ports

### 100Mb SFP transceivers

SFP100P-FXMM2	100FX Fiber Optic SFP transceiver, multi-mode, 2Km
SFP100P-FXSM20	100FX Fiber Optic SFP transceiver, single-mode, 20Km
SFP100P-FXSM40	100FX Fiber Optic SFP transceiver, single-mode, 40Km
SFP100P-RJ45	100Mb Copper SFP transceiver, 10/100 auto-negotiating

## Step 3 Choose Ethernet module or IRIG-B module for Slot B (may be blank)

Choose one Ethernet module from Step 2 list for Slot B	
OR select	
IRIGB-TMODULE	Timing module for IRIG-B in the 10ETS Slot B

## Step 4a. Optional: For Slot C, select Ethernet module from the following list; If no Ethernet ports are desired for Slot C, got to Step 4b. (may be blank)

Module #	10/100	100BASE-FX(MM)	100BASE-FX(SM)	10BASE-FL
10K4-RJ45	4			
10K4PX-RJ45	4PoE+	802.3at PoE +		
10K4-MLC		4 (LC)		
10K4-SLC			4 (20km LC)	
10K4-SLCL			4 (40km LC)	
10K4-MTRJ		4 (MTRJ)		
10K2-MST		2 (ST)		
10K2-MSC		2 (SC)		
10K2-SSC			2 (20km SC)	
10K2-SSCL			2 (40km SC)	
10K2-F10ST				2 (ST)
10K4-FXSFP	SFP module w/4 100Mb SFP open xcvr slots			

## Step 4b. Optional: Choose 1 Serial module for Slot C Modules can be blank.

Module #	Description
10TS2-DB9	2 port DB-9 (female DTE)
10TS2-DB9-IRIGB	*2 port DB-9 (female DCE) with IRIG-B
10TS4-RJ45	4 port RJ45
10TS4-RJ45-IRIGB	*4 port RJ45 with IRIG-B

\*Prerequisite: IRIG-B timing module in Slot B

## Step 5. Optional: Choose 1 Serial module for Slots D-J Modules can be blank.

Module #	Description
10TS2-DB9	2 port DB-9 (female DTE)
10TS2-DB9-IRIGB	*2 port DB-9 (female DCE) with IRIG-B
10TS4-RJ45	4 port RJ45
10TS4-RJ45-IRIGB	*4 port RJ45 with IRIG-B

\*Prerequisite: IRIG-B timing module in Slot B

## Step 6. Choose options & extras:

Model #	Description
10ETS-BLNK	Blank cover for 1 unused 10ETS port module slot
CONSOLE-CBLQD	Console attachment cable serial null Modem cable with one RJ-45 for the 10KT and a DB-9
CONSOLE-CBLQU	Console attachment cable serial null Modem cable with one RJ-45 for the 10KT and a USB
MNS-DX-SECURE	Optional, licensed per 10ETS switch for extra security
RMB-23W	23" 'Telco' rack-mount kit (1U); mid-mount recommended
RMB-ETSI	ETSI rack-mount kit (1U); mid-mount recommended
CONFORM05-RMOD	Conformal coating, 5 mil, for moisture protection
CONFORM08-CRM	Conformal coating, 8 mil, for corrosive environments