

Magnum 10KT Configuration Guide

Magnum 10KT Managed Switch, base unit is fiber-configurable convection-cooled managed switch. Provides 10 modular slots for configuration flexibility of up to 4 Gb ports and 32 fiber or copper ports (some PoE). Unit offers dual hot-swappable power supplies. Port modules for 1588 timing are configurable.



Step 1. Choose 10KT chassis and power input type

Model #	Description, Base Unit of Magnum 10KT Managed Switch
10KT-HSP-TF	Front mount, incl 2 slots for Hot-Swap Power Supplies; Case with thermal fins
10KTR-HSP-TF	Reverse mount, incl 2 slots for Hot-Swap Power Supplies; Case with thermal fins
10KT-H-TF	Front mount with AC/DC power (90-250V); Case with thermal fins
10KTR-H-TF	Reverse mount with AC/DC power (90-250V); Case with thermal fins
10KT-48VDC-TF	Front mount with -48V DC Power; Dual-Source optional. Case with thermal fins
10KTR-48VDC-TF	Reverse mount with -48V DC Power; Dual-Source optional. Case w/ thermal fins
10KT-24VDC-TF	Front mount with 24V DC Power; Dual-Source optional. Case with thermal fins
10KTR-24VDC-TF	Reverse mount with 24V DC Power; Dual-Source optional. Case with thermal fins
10KT-AC-TF	Front mount w/ worldwide AC power (100-240V); Case w/ thermal fins
10KTR-AC-TF	Reverse mount w/ worldwide AC power (100-240V); Case w/ thermal fins

Step 2. If “HSP” base unit with hot swappable power supplies is selected, choose up to two power supply modules.

***Note, for PoE, every power supply chosen must be -48V**

HSPM-H	AC or DC power (90-250V)
HSPM-48V	-48V DC power (36-60V); Note: for PoE at -48VDC: Input should be -44 to -57VDC.
HSPM-24V	24V DC power (18-36V)

Step 3 Choose modules for Gigabit Slots A and/or B (may be blank)

Configure timing in slots A - B in pairs only. ... For example, if slot A has a timing module, then slot B must have a timing module or be unpopulated.

Module#	Gigabit Modules for Slots A - B
10K2T-2GCU	Two Gigabit RJ-45 ports, 1588 timing
10K2T-2GSFP	Two Gigabit SFP slots, 1588 timing
10K2-2GCU	Two Gigabit RJ-45 ports
10K2-2GSFP	Two Gigabit SFP slots

Gb SFP transceivers

SFP-GTP	Gb Copper
SFP-SX	Gb SX, 850nm wavelength, 550 meters distance
SFP-ESX	Gb SX, 1310nm wavelength, 2km distance
SFP-LX10	Gb LX, 1310nm wavelength, 10km distance
SFP-LX25	Gb LX, 1310nm wavelength, 25km distance
SFP-ZX40	Gb ZX, 1550nm wavelength, 40km distance
SFP-ZX70	Gb ZX, 1550nm wavelength, 70km distance

Step 4. Choose 1 port module for up to 8 slots (C – J) (some may be blank)

Configure timing in slots C – J in pairs only i.e. C, D or E, F etc... For example, if slot C has a timing module, then slot D must have a timing module or be unpopulated. If slot G has timing, then slot H must have timing or be unpopulated.

Module Model #	1588 Timing	10/100	100BASE-FX(MM)	100BASE-FX(SM)
10K4-RJ45		4		
10K4T-RJ45	X	4		
10K4P-RJ45 *		4 (PoE)		
10K4-MLC			4 (LC)	
10K4T-MLC	X		4 (LC)	
10K4-SLC				4 (20km LC)
10K4T-SLC	X			4 (20km LC)
10K4-SLCL				4 (40km LC)
10K4T-SLCL	X			4 (40km LC)
10K4-MTRJ			4 (MTRJ)	
10K4T-MTRJ	X		4 (MTRJ)	
10K2-MST			2 (ST)	
10K2-MSX			2 (SC)	
10K2-SSC				2 (20km SC)
10K2-SSCL				2 (40km SC)

Step 5. Choose options & extras:

Model #	Description
KT-RFAN	Removable Fan for extra fiber ports and cooling; Optional for up to 16 fiber ports. Required for 18 to 36 fiber ports.
DUAL-SRC	For DC only models with one P.S., two separate pwr inputs.
10KT-BLNK	Blank cover for 1 unused 10KT 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-6K-SECURE	Optional, licensed per switch for extra security
S-RING-KEY	Software, optional self-healing redundant ring management
RMB-23W	23" 'Telco' rack-mount kit (1U); mid-mount recommended
RMB-ETSI	ETSI rack-mount kit (1U); mid-mount recommended
CONFORM05-CRM	Conformal coating, 5 mil, for moisture protection
CONFORM08-CRM	Conformal coating, 8 mil, for corrosive environments