



# Magnum 10KT

## Managed Switch with Timing



### Hardware Installation and User Guide

## 1.2 Ordering Information

### Hot-Swap Power supply models, w/Thermal Fins

<u>MODEL</u>	<u>DESCRIPTION</u>
<b>10KT-HSPHH-TF:</b>	Magnum 10KT Managed Switch, front-mount, with two PS slots for two H Hot-Swap Power Supplies. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb. Heavy-duty case with thermal fins for maximum convection cooling efficiency in a rack-mount setting.
<b>10KTR-HSPHH-TF:</b>	Same as Model 10KT-HSPHH-TF except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KT-HSPHL-TF:</b>	Magnum 10KT Managed Switch, front-mount, with two PS slots for one H and one L Hot-Swap Power Supply. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb. Heavy-duty case with thermal fins for maximum convection cooling efficiency in a rack-mount setting.
<b>10KTR-HSPHL-TF:</b>	Same as Model 10KT-HSPHL-TF except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KT-HSPLL-TF:</b>	Magnum 10KT Managed Switch, front-mount, with two PS slots for two L Hot-Swap Power Supplies. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb. Heavy-duty case with thermal fins for maximum convection cooling efficiency in a rack-mount setting.
<b>10KTR-HSPLL-TF:</b>	Same as Model 10KT-HSPLL-TF except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KTP-HSPLL-TF:</b>	Magnum 10KT Managed Switch, front-mount, with two PS slots for two L Hot-Swap Power Supplies. Supports PoE – choose PoE module(s) separately. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb. Heavy-duty case with thermal fins for maximum convection cooling efficiency in a rack-mount setting.
<b>10KTPR-HSPLL-TF:</b>	Same as Model 10KTP-HSPLL-TF except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)

## Fixed Power supply models w/Thermal Fins

### MODEL

### DESCRIPTION

- 10KT-H-TF:** Magnum 10KT Managed Switch, front-mount, with integral 90-250V AC/DC Power Supply. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb. Heavy-duty case with thermal fins for maximum convection cooling efficiency in a rack-mount setting.
- 10KTR-H-TF:** Same as Model 10KT-H-TF except chassis is a Reverse Mount unit.  
(All signal and power cables are in the rear)
- 10KT-HH-TF:** Magnum 10KT Managed Switch, front-mount, with two integral 90-250V AC/DC Power Supply. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb. Heavy-duty case with thermal fins for maximum convection cooling efficiency in a rack-mount setting.
- 10KTR-HH-TF:** Same as Model 10KT-HH-TF except chassis is a Reverse Mount unit.  
(All signal and power cables are in the rear)
- 10KT-L-TF:** Same as Model 10KT-H-TF except the integral power supply is L 24/48VDC.
- 10KTR-L-TF:** Same as Model 10KT-L-TF except chassis is a Reverse Mount unit.  
(All signal and power cables are in the rear)
- 10KT-LL-TF:** Same as Model 10KT-HH-TF except the integral power supplies are L 24/48VDC.
- 10KTR-LL-TF:** Same as Model 10KT-LL-TF except chassis is a Reverse Mount unit.  
(All signal and power cables are in the rear)
- 10KT-HL-TF:** Same as Model 10KT-HH-TF except the integral power supplies are one H 90-250V AC/DC and one L 24/48VDC.
- 10KTR-HL-TF:** Same as Model 10KT-HL-TF except chassis is a Reverse Mount unit.  
(All signal and power cables are in the rear)
- 10KT-L-TF:** Magnum 10KT Managed Switch, front-mount, with integral 24/48VDC Power Supply. Supports PoE – choose PoE module(s) separately. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb. Heavy-duty case with thermal fins for maximum convection cooling efficiency in a rack-mount setting.
- 10KTPR-L-TF:** Same as Model 10KTP-L-TF except chassis is a Reverse Mount unit.  
(All signal and power cables are in the rear)
- 10KT-AC-TF:** Same as Model 10KT-H-TF except the power supply is an auto-sensing worldwide AC power type (100-240V AC) using a UL-registered recessed-male IEC 320 plug.
- 10KTR-AC-TF:** Same as Model 10KT-AC-TF except chassis is a Reverse Mount unit.  
(All signal and power cables are in the rear)

Please use this URL: for the complete Configuration Guide for the Magnum 10KT.

[http://www.garrettcom.com/techsupport/insertion\\_guides/10ktcg.pdf](http://www.garrettcom.com/techsupport/insertion_guides/10ktcg.pdf)

## Hot-Swap Power supply models, wo/Thermal Fins

<u>MODEL</u>	<u>DESCRIPTION</u>
<b>10KT-HSPHH:</b>	Magnum 10KT Managed Switch, front-mount, with two PS slots for two H Hot-Swap Power Supplies. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb.
<b>10KTR-HSPHH:</b>	Same as Model 10KT-HSPHH except chassis is a Reverse Mount unit. (All signal and power cables are in the rear).
<b>10KT-HSPHL:</b>	Magnum 10KT Managed Switch, front-mount, with two PS slots for one H and one L Hot-Swap Power Supply. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb.
<b>10KTR-HSPHL:</b>	Same as Model 10KT-HSPHL except chassis is a Reverse Mount unit. (All signal and power cables are in the rear).
<b>10KT-HSPLL:</b>	Magnum 10KT Managed Switch, front-mount, with two PS slots for two L Hot-Swap Power Supplies. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb.
<b>10KTR-HSPLL:</b>	Same as Model 10KT-HSPLL except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KTP-HSPLL:</b>	Magnum 10KT Managed Switch, front-mount, with two PS slots for two L Hot-Swap Power Supplies. Supports PoE – choose PoE module(s) separately. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb.
<b>10KTPR-HSPLL:</b>	Same as Model 10KTP-HSPLL except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)

**Fixed Power supply models, wo/Thermal Fins**

<b><u>MODEL</u></b>	<b><u>DESCRIPTION</u></b>
<b>10KT-H:</b>	Magnum 10KT Managed Switch, front-mount, with integral 90-250V AC/DC Power Supply. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb.
<b>10KTR-H:</b>	Same as Model 10KT-H except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KT-HH:</b>	Magnum 10KT Managed Switch, front-mount, with two integral 90-250V AC/DC Power Supply. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb.
<b>10KTR-HH:</b>	Same as Model 10KT-HH except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KT-L:</b>	Same as Model 10KT-H except the integral power supply is L 24/48VDC.
<b>10KTR-L:</b>	Same as Model 10KT-L except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KT-LL:</b>	Same as Model 10KT-HH except the integral power supplies are L 24/48VDC.
<b>10KTR-LL:</b>	Same as Model 10KT-LL except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KT-HL:</b>	Same as Model 10KT-HH except the integral power supplies are one H 90-250V AC/DC and one L 24/48VDC.
<b>10KTR-HL:</b>	Same as Model 10KT-HL except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KTP-L:</b>	Magnum 10KT Managed Switch, front-mount, with integral 24/48VDC Power Supply. Supports PoE – choose PoE module(s) separately. May be factory-configured with a variety of fiber and copper port modules selected designed specifically for the 10KT-series. Configure up to 36 ports in a mix of Gb and 100Mb.
<b>10KTPR-L:</b>	Same as Model 10KTP-L except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)
<b>10KT-AC:</b>	Same as Model 10KT-H except the power supply is an auto-sensing worldwide AC power type (100-240V AC) using a UL-registered recessed-male IEC 320 plug.
<b>10KTR-AC:</b>	Same as Model 10KT-AC except chassis is a Reverse Mount unit. (All signal and power cables are in the rear)

**Please use this URL: for the complete Configuration Guide for the Magnum 10KT.**

**[http://www.garrettcom.com/techsupport/insertion\\_guides/10ktcgnf.pdf](http://www.garrettcom.com/techsupport/insertion_guides/10ktcgnf.pdf)**

**“HSP” Hot-Swap power supply options:**

(If “HSP” base unit is selected, choose up to two power supply modules. For “-HF” or “-LF” models below, Also choose the KT-RFAN option in the Options & Extras below)

<b>HSPM-H:</b>	AC or DC power (90-250V)
<b>HSPM-L:</b>	24/48V DC power (22-60V)
<b>HSPM-HF:</b>	AC or DC power (90-250V) w/Internal cooling fan
<b>HSPM-LF:</b>	24/48V DC power (22-60V) w/Internal cooling fan
<b>10K-PSBLNK:</b>	Blank cover for one hot-swap power supply slot

**Following 2-port Gb modules can be configured in Slots A and/or B only****Magnum 10KT (Slots A, B) Port Modules:**

<b>10K2T-2GCU</b>	Module with two Gigabit RJ-45 ports, 1588 timing
<b>10K2T-2GSFP</b>	Module with two Gigabit SFP slots, 1588 timing
<b>10K2-2GCU</b>	Module with two Gigabit RJ-45 ports
<b>10K2-2GSFP</b>	Module with two Gigabit SFP slots

**Gigabit SFP transceiver options for Slots A & B:**

<b>SFP-GTP</b>	Gb SFP transceiver, Copper 1000Base-T, 100m
<b>SFP-SX</b>	Gb SFP transceiver, 1000Mb-SX, 850nm wavelength, 550m
<b>SFP-ESX</b>	Gb SFP transceiver, 1000Mb, 1310nm wavelength, 2km
<b>SFP-LX10</b>	Gb SFP transceiver, 1000Mb-LX, 1310nm wavelength, 10km
<b>SFP-LX25</b>	Gb SFP transceiver, 1000Mb-LX, 1310nm wavelength, 25km
<b>SFP-ZX40</b>	Gb SFP transceiver, 1000Mb-ZX, 1550nm wavelength, 40km
<b>SFP-ZX70</b>	Gb SFP transceiver, 1000Mb-ZX, 1550nm wavelength, 70km

**Following modules can be configured in Slots C thru J only****Magnum 10KT (Slots C thru J) Port Modules:**

<b>10K4-RJ45</b>	Module w/four 10/100 RJ-45 ports
<b>10K4T-RJ45</b>	Module w/four 10/100 RJ-45 ports with 1588 timing
<b>10K4P-RJ45</b>	Module w/four 10/100 RJ-45 PoE (802.3af) ports (PoE chassis and L power supply is required)
<b>10K4PX-RJ45</b>	Module w/four 10/100 RJ-45 PoE PLUS (802.3at) ports Supports PoE (802.3af) or PoE Plus (802.3at) (PoE chassis and L power supply is required) (Only a maximum of four 10K4PX-RJ45 modules is supported)
<b>10K4-MLC</b>	Module w/four 100Mb multimode fiber LC ports
<b>10K4T-MLC</b>	Module w/four 100Mb multimode fiber LC ports with 1588 timing
<b>10K4-SLC</b>	Module w/four 100Mb singlemode fiber LC ports (20km)
<b>10K4T-SLC</b>	Module w/four 100Mb singlemode fiber LC ports (20km) with 1588 timing

<b>10K4-SLCL</b>	Module w/four 100Mb “long-haul” singlemode fiber LC ports (40km)
<b>10K4T-SLCL</b>	Module w/four 100Mb “long haul” singlemode fiber LC ports (40km) with 1588 timing
<b>10K4-MTRJ</b>	Module w/four 100Mb multimode fiber MTRJ ports
<b>10K4T-MTRJ</b>	Module w/four 100Mb multimode fiber MTRJ ports with 1588 timing
<b>10K2-MST</b>	Module w/two multimode ST fiber ports
<b>10K2T-MST</b>	Module w/two multimode ST fiber ports with 1588 timing
<b>10K2T-SST</b>	Module w/two singlemode ST fiber ports with 1588 timing
<b>10K2-F10ST</b>	Module w/two multimode 10Mb ST fiber ports
<b>10K2-MSC</b>	Module w/two multimode SC fiber ports
<b>10K2T-MSC</b>	Module w/two multimode SC fiber ports with 1588 timing
<b>10K2-SSC</b>	Module w/two singlemode SC fiber ports
<b>10K2T-SSC</b>	Module w/two singlemode SC fiber ports with 1588 timing
<b>10K2-SSCL</b>	Module w/two “long-haul” singlemode SC fiber ports
<b>10K4-FXSFP</b>	Module w/four open 100Mb SFP ports

**100Mb SFP transceiver options for module 10K4-FXSFP:**

<b>SFP100P-FXMM2</b>	100FX fiber SFP transceiver, multimode, 2km
<b>SFP100P-FXSM20</b>	100FX fiber SFP transceiver, singlemode, 20km
<b>SFP100P-FXSM40</b>	100FX fiber SFP transceiver, singlemode, 40km
<b>SFP100P-RJ45</b>	10/100Mb, RJ45 SFP transceiver

**NOTE: 1588 timing modules must be configured in vertical slot pairs only.**

(For example, if slot A, on the top, has a timing module, then slot B, below it, must also have a timing module or be unpopulated.)

**10KT Slot locations:**

