
LATTISNET MODEL 550B TOKEN RING MEDIA FILTER REFERENCE SHEET

This reference sheet provides technical information about the LattisNet Model 550B Token Ring Media Filter for UTP lobe cables. This passive filter is attached directly to the network interface card in the Token Ring station. The Model 550B limits electromagnetic radiation on UTP lobe cable to levels compliant with FCC Class A requirements. For screened 100 Ω lobe cable (e.g. AT&T 1261/2261 or Siemens ICCS), the Model 550B limits radiation to levels compliant with EN 55 022 Class B emissions requirements. This reference sheet contains the following information:

- Features
- Cable Connections
- Technical specifications

FEATURES

The Model 550B Media Filter has the following features:

- Standard DB-9 male connector for direct attachment to an IEEE 802.5 Token Ring network interface card
- Shielded RJ-45 modular female receptacle for connection to UTP or screened 100 Ω lobe cable
- Operation at either 4 Mb/s or 16 Mb/s (no adjustment necessary)
- Filter characteristics to limit electromagnetic radiation on the UTP or screened 100 Ω lobe cable
- Compatibility with all System 3000 Token Ring host modules
- Operation with both 100 Ω and screened 100 Ω cable (e.g. AT&T 1261/2261 or Siemens ICCS)
- Flexibility to support variable length patch cables (compared to Model 955)

CABLE CONNECTIONS

One Model 550B is used for each Token Ring station that is connected by UTP or screened 100 Ω cable to a port on the host module. A Model 550B is not required at the concentrator host module end of the lobe cable. To connect the Model 550B to a Token Ring station, follow these steps:

1. Connect the Model 550B directly to the DB-9 connector on the station's Token Ring network interface card. Align and tighten the knurled retaining screws, either by hand or with a flat-blade screwdriver.
2. Connect the RJ-45 modular male connector on a Model 952 Low Crosstalk UTP Patch Cable or a Model 954 Low Crosstalk UTP Crossover Patch Cable to the RJ-45 modular female connector on the Model 550B.
3. Connect the other end of the Model 952 or 954 patch cable to the RJ-45 wall outlet connected to the premises UTP lobe cable.

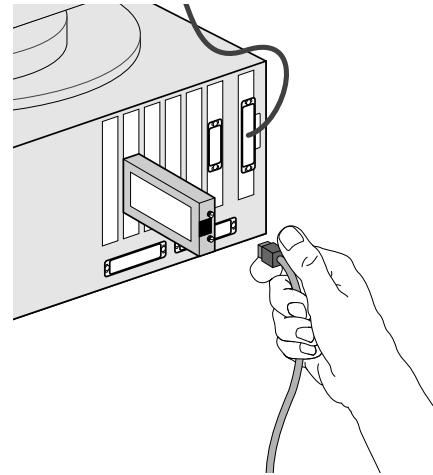


Figure 1
Connecting Model 550B
Media Filter

NOTE: For screened 100 Ω cable, use the recommended patch cables from the cable manufacturer.

TECHNICAL SPECIFICATIONS

Network Protocol and Standards Compatibility

IEEE 802.5 Token Ring Access Method and Physical Layer Specifications

Data Rate

4 Mb/s or 16 Mb/s differential Manchester encoded, IEEE 802.5

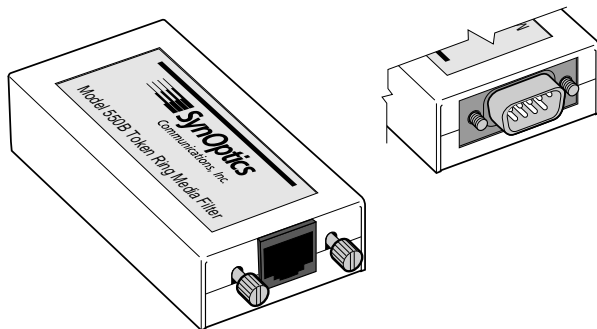
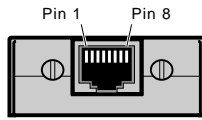
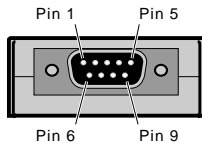


Figure 2
Model 550B Media Filter

Pin Assignments



DB-9 Connector	
Pin 1	Receive Out (red)
Pin 2	Not connected
Pin 3	Not connected
Pin 4	Not connected
Pin 5	Transmit In (black)
Pin 6	Receive Out (green)
Pin 7	Not connected
Pin 8	Not connected
Pin 9	Transmit In (orange)
Shell	Case ground

RJ-45 Connector	
Pin 1	Not connected
Pin 2	Not connected
Pin 3	Transmit Out
Pin 4	Receive In
Pin 5	Receive In
Pin 6	Transmit Out
Pin 7	Not connected
Pin 8	Not connected

Physical Specifications

Dimensions: (L) 3.7 in x (W) 1.8 in x (H) 0.8 in
 (L) 9.4 cm x (W) 4.4 cm x (H) 2.0 cm

Weight: 5.6 oz (0.1 kg)

Environmental Specifications

Operating Temperature: 5° C to 40° C

Storage Temperature: -25° C to 70° C

Operating Humidity: 85% max. relative humidity, noncondensing

Storage Humidity: 95% max. relative humidity, noncondensing

Operating Altitude: 3,000m (10,000 ft) maximum

Electromagnetic Emissions

Meets requirements of

FCC Part 15, Subparts A and B, Class A

EN 55 022 (CISPR 22:1985), Class B

General License VDE 0871, Class B (AmtsblVfg No. 243/1991 and Vfg 46/1992)

VCCI Class 1 ITE

EN 55 022 Declaration of Conformance

This is to certify that the SynOptics Communications Model 550B Token Ring Media Filter is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55 022:1987 Class B (CISPR 22:1985/BS 6527:1988). Compliance with the applicable regulations is dependent upon the use of shielded cables.

Bestätigung des Herstellers/Importeurs

Es wird hiermit bestätigt, daß das Model 550B Token Ring Media Filter gemäß der im BMPT-AmtsblVfg 243/1991 und Vfg 46/1992 aufgeführten Bestimmungen entstört ist. Das vorschriftsmäßige Betreiben einiger Geräte (z.B. Testsender) kann jedoch gewissen Beschränkungen unterliegen. Lesen Sie dazu bitte die Anmerkungen in der Betriebsanleitung.

Das Bundesamt für Zulassungen in der Telekommunikation wurde davon unterrichtet, daß dieses Gerät auf den Markt gebracht wurde und es ist berechtigt, die Serie auf die Erfüllung der Vorschriften hin zu überprüfen.

Die Erfüllung der zutreffenden Vorschriften hängt von der Benutzung geschirmter Kabel ab. Der Benutzer ist für den Erwerb der entsprechenden Kabel verantwortlich.

Voluntary Control Council for Interference (VCCI) Statement

この装置は、第一種情報装置（商工業地域において使用されるべき情報装置）で、商工業地域での電波障害防止を目的とした情報処理装置等電波障害自主規制協議会（VCCI）基準に適合しております。

従って、住宅地域、その隣接地域等で使用した場合、ラジオ、テレビ受信機等に障害を与えることがあります。

上記基準に適合する遮蔽ケーブルを使用し、取扱説明書に従って、正しくご使用ください。

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