

AUTOMATED TUNER SYSTEM POWER DISTRIBUTION HUBS

Models MT1020A and MT1020B



MT1020A

Features

- Integrated Solid State and Electro-Mechanical Tuner Control Hubs
- Enhanced Speed
- Integrated Tuner DLL
- Super Stable Mechanical Design
- Ideal for On-Wafer Load Pull and Noise Parameter Measurements
- Compatible with ATN NP and LP Systems

Description

The Maury model MT1020A SmartHub is designed to provide a USB 1.1 interface to Maury MT97xU and MT98xU series USB controlled mechanical, and Maury or ATN NP5 and LP series solid state tuners. It supplies all of the power requirements, including motor drive current for up to nine tuners, or other USB compatible devices. The LED readout and mode selection keys on the front panel of the SmartHub are used to display information about the tuners or other devices connected to each port.

The MT1020B ATS Power Distribution Hub is designed to provide an economical, convenient connection and fast interface for use with Maury ATS USB controlled automated mechanical tuners. It contains a switching power supply and a four-port USB 2.0 hub. It connects to the host computer via a standard USB 2.0 interface and is compatible with



MT1020B

both 2.0 and 1.1 USB standards. The MT102B automated tuner system power distribution hub will not operate Maury or ATN solid state tuners.

Accessories Supplied

The MT1020A automated tuners are provided with:

- MT1020S5 USB tuner cable assembly which connects the tuner to the MT1020A SmartHub

The MT1020B automated tuners are provided with:

- MT1020S1 operating manual
- Spare fuse, Maury P/N 499-F-107 (GMC-3A, Time Lag)
- Power cord: For 115VAC, P/N 499-C-082 (U.S.A.) or for 230 VAC, P/N 499-C-469 (Europe, CE certified) or P/N 499-C-718 (Chinese, CCC certified)
- USB cable assembly, P/N 499-C-722



Specifications for the MT1020A

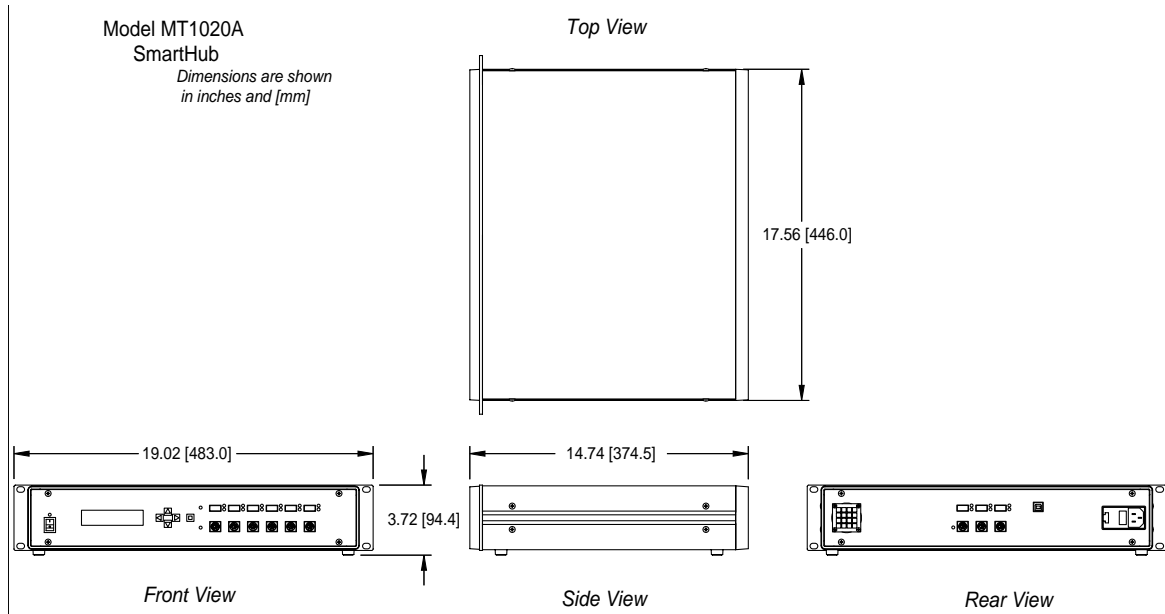
Automated USB Tuners	Maximum of 9 USB controlled microwave tuners
USB Interface	1.1 compatible
Power Requirements	85 to 264 VAC 47 to 500 Hz, 10 Amps maximum Maintains supply voltage fluctuations not exceeding $\pm 10\%$ of the nominal voltage. Transient overvoltages according to overvoltage category II
Output Power	+5 Vdc at 20 Amps +12 Vdc at 4.2 Amps +15 Vdc at 6.7 Amps +24 Vdc at 20.8 Amps +48 Vdc at 1 Amp
USB Power	+5 Vdc at 500mA per port. (With MT1020A connected to an AC power source and with the MT1020A power switch set to the ON position.)
Environment	Relative humidity, 90% non-condensing. Indoor use only. Altitude up to 2000M Pollution degree 2

Specifications for the MT1020B

Automated USB Tuners	Maximum of 4 USB controlled microwave tuners
USB Interface	1.1 and 2.0 compatible
Power Requirements	100 to 264 VAC, 47 to 63 Hz, 3A Maintains supply voltage fluctuations not exceeding $\pm 10\%$ of the nominal voltage. Transient overvoltages according to overvoltage category II
Output Power	+5 Vdc at 5 Amps and +24 Vdc at 3.4 Amps
USB Power	+5 Vdc at 500mA per port. (With MT1020B connected to an AC power source and with the MT1020B power switch set to the ON position.)
Environment	Relative humidity, 90% non-condensing. Indoor use only. Altitude up to 2000M Pollution degree 2



Dimensions for the MT1020A – Inches (mm)



Dimensions for the MT1020B – Inches (mm)

