



SPECIFICATIONS

Product Package:
 MicroHub LE Model 4000H hardware
 110/220 Volt Desk Mount Power Supply
 User Manual

Electrical:
 Power Consumption: 1.0A at 16VAC Maximum

Environmental:
 Operating Temperature: 0°-55° C. 32°-131° F.
 Storage Temperature: -10°-70° C. 14°-158° F.
 Operating Humidity: 10%-90% (non-condensing)
 Storage Humidity: 5%-95% (non-condensing)
Tested to comply with FCC Class A Radiation requirements.

Hardware Compatibility:
Backbone / Uplink Port:

Thin Coax "Thinnet"	BNC	10Base2
Thick Coax "Thicknet"	DB-15	10Base5
Unshielded Twisted Pair	RJ45	10BaseT

Front panel 10BaseT Ports:
 (8) Unshielded Twisted Pair RJ45 10BaseT

BNC Port:

	Unit	Typical	Worst
Cable Type	RG-58u	--	--
Maximum Cable Length	meters	185	--
Power and Signal Isolation	vrms	500	--
Maximum Number of Taps	segment	30	--
Transmit Output Voltage	AC Sine	1.8	2.2
Jitter	ns	+-5	+-2
Squelch Threshold	mV	175	300
Collision Detection Voltage	V	1.51	1.58

Physical:
 The MIL•4000H is packaged in lightweight aluminum alloy with a gray finish, for years of durable maintenance-free use.

Dimensions: 7.0" L x 5.0" W x 1.6" D
 Weight 27 oz.
 Shipping 40 oz



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Ethernet / IEEE 802.3 V1.0/V2.0

**MicroHub LE
 MODEL MIL•4000H
 9 Port 10BaseT
 Workgroup Hub**

Conforms to IEEE 802.3 Repeater Unit Specifications

- All ports are separately partitioned in response to excessive collision or fault conditions.
- All ports automatically reconnect once fault condition is cured.
- Transmit and receive mode, collision detection, and propagation are implemented.
- Full amplitude and retiming regeneration for re-transmitted waveforms removes jitter caused by cable attenuation and other devices on the network.
- Deep fifo eliminates any preamble loss.
- Jabber lock up protection-Repeater logic disables transmission for 96 bit times once jabber packet of 65,536 bits is received.
- Automatic polarity reversal is disabled by default.
- Link test is enabled by default.

UTP Ports:

	Unit	Typical	Worst
Distance Limit	Meters	100	100
Output voltage	V	5	-
Voltage imbalance	mV	40	80
Rise/fall time	ns	20	-
Rise/fall time mismatch	ns	6	-
Link test period	ms	8	24
Unsquench voltage	mV	300	500
Post-squelch	mV	150	260
Signal isolation	vrms	2000	-

AUI Interface:

	Unit	Typical
Input Sensitivity	mV	100
Frequency Range	MHz	1-20
Input Impedance Differential	ohm	78
Output Voltage	V	1.2
Output Impedance	ohm	78
Output Current	mA	40
Output Voltage Differential	mV	500-900
Symmetry	ns	+-2
Cable Specifications	IEEE802.3	50 Meters

RJ-45 Wiring - Pinout for 10BaseT Port:

Hub Port		Uplink Port	
1 RX+	5	1 TX+	5
2 RX-	6 TX-	2 TX-	6 RX-
3 TX+	7	3 RX+	7
4	8	4	8

AUI Interface Connector

Type: 15-position, D-style male receptacle
 Shell: Protective ground

Pin	1 - Chassis GRD	6 - Voltage Return	11 - GRD
	2 - Control In A	7 - NC	12 - Data In - B
	3 - Data Out - A	8 - NC	13 - Voltage +
	4 - GRD	9 - Control In B	14 - GRD
	5 - Data In - A	10 - Data Out - B	15 - NC

NC- No Connection

NOTICE: MiLAN Technology Corporation reserves the right to change these specifications without notice.

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