METRObility optical systems

Simply Brilliant Optical Ethernet

Lancast®
Transceivers

- *Copper and fiber connectivity*
- *10Mbps and 100Mbps*
- *Full complement of LEDs*
- *MT-RJ, VF-45, SC and ST fiber connections*
- *RJ-45 and BNC copper connections*

Flexible 10Mbps and 100Mbps Connectivity Solutions

Lancast transceivers from Metrobility Optical Systems provide high-performance connections between bridges, routers, servers, workstations and other peripherals in 10Mbps or 100Mbps networks. The compact units attach in the narrowest of spaces without interfering with other interfaces. A full complement of LEDs provide indication of normal operation and network diagnostics. These standards-based transceivers are compatible with Ethernet and Fast Ethernet devices from other network technology providers, ensuring high throughput performance in multi-vendor environments.

Lancast 4320 10Mbps Transceiver

The Lancast 4320 series transceivers for 10Mbps LANs connect Ethernet peripherals to 10BASE-T, 10BASE-FL or 10BASE-2 networks. The convenient location of the connectors, plus their extremely small size and locking-post design, allow for installation in limited space. In addition to a 15-pin DB-type connector and a full complement of LEDs, each transceiver also incorporates a simple, user-selectable DIP switch for Signal Quality Error (SQE), thus allowing fast, easy setup in a variety of network configurations.
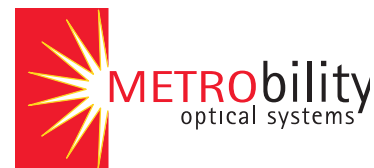
Lancast 6221/6224 100Mbps Transceiver

The Lancast 6221 and 6224 transceivers provide 100Mbps connectivity for desktop PCs and servers as well as bridges, switches and routers. A four-position DIP switch provides convenient user-selectable control of configuration and interoperability by the network integrator. The 6224 transceiver for 10/100BASE-TX supports user-enabled auto-negotiation for half-duplex or full-duplex operation and for 10 or 100Mbps data rates. The 6221 transceiver for 100BASE-FX utilizes full-duplex technology in 100Mbps LANs, and supports links up to 2km over multimode and up to 15km over singlemode fiber optic cable. Transceivers with MT-RJ or VF-45 connectors are also available for versatile network connnections.

The Metrobility Difference

10Mbps connectors options for RJ-45, BNC, ST and SMA

Reverse polarity detection and automatic correction

Supports long distance data transmission over singlemode and multimode fiber optics

Switch-selectable SQE

AUI or MII interface on each transceiver

Full complement of diagnostic LEDs

Product Highlights

100Mbps with fiber connector option for ST, SC, MT-RJ and VF-45

Full-duplex mode for operation between switches, routers and servers

Physical-layer signaling schemes support 100Mbps data rates over a range of cabling types

Unique slim neck design eliminates the need for additional interface cabling

Industry-standard 40-pin MII interface

Model#	Speed (Mbps)	Max. Power Requirements	Connectors	LEDs	DIP Switches	Supported Segment Length
4320-12	10	120mA @ 12VDC	AUI, RJ-45	PWR, LINK, TX, RX, COL, POL, JAB	SQE	100m
4321-12	10	120mA @ 12VDC	AUI, BNC with T connector	PWR, TX, RX, COL, JAB	SQE	185m
4322-11	10	210mA @ 12VDC	AUI, multimode ST	PWR, LINK, TX, RX, COL	-----	2km
4322-21	10	210mA @ 12VDC	AUI, multimode SMA	PWR, LINK, TX, RX, COL	-----	2km
4322-31	10	230mA @ 12VDC	AUI, singlemode ST	PWR, LINK, TX, RX, COL	-----	8km
6221-01	100	336mA max @ 5.0VDC	MII, multimode SC	PWR, LINK, TX, RX, COL	half duplex full duplex PHY	2km
6221-02	100	336mA max @ 5.0VDC	MII, multimode ST	PWR, LINK, TX, RX, COL	half duplex full duplex PHY	2km
6221-03	100	336mA max @ 5.0VDC	MII, singlemode SC	PWR, LINK, TX, RX, COL	half duplex full duplex PHY	15km
6221-04	100	336mA max @ 5.0VDC	MII, multimode VF-45	PWR, LINK, TX, RX, COL	half duplex full duplex PHY	2km
6221-06	100	336mA max @ 5.0VDC	MII, multimode MT-RJ	PWR, LINK, TX, RX, COL	half duplex full duplex PHY	2km
6221-07	100	336mA max @ 5.0VDC	MII, singlemode MT-RJ	PWR, LINK, TX, RX, COL	half duplex full duplex PHY	15km
6224	10/100	336mA max @ 5.0VDC	MII, RJ-45	PWR, LINK, TX, RX, COL	half duplex full duplex 10/100Mbps PHY	100m

Metrobility Optical Systems is an innovative next generation optical networking company whose focus is on delivering optical access platforms and to harness the power of Ethernet and fiber optics to deliver superior network edge access and connectivity solutions.

Specifications

Dimensions

4320-12	2.37" L x 1.75" W x .88" H
4321-12	2.37" L x 1.75" W x .88" H
4322-xx	2.00" L x 1.50" W x .75" H
62xx	3.75" L x 1.86" W x .86" H

Environmental

Operating Temperature	0°C - 50°C
Operating Humidity	5% - 90% (non-condensing)
Storage Temperature	-20°C - 70°C

Regulatory

Compliance	IEEE 802.3 / IEEE 802.3u
Safety and EMC	FCC, UL, CE, C-UL

A6285   UL   ISO 9001

Metrobility Optical Systems,Inc.