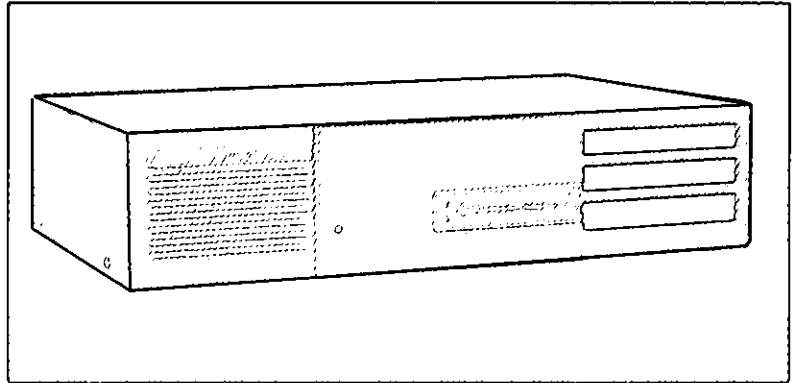# MICOM MARATHON® 3K

Integration Multiplexer

The Marathon 3K is one of a full family of industry-leading Integration Multiplexers offering cost-effective solutions for small to enterprise-sized networks.

Built-in Voice/Fax and Legacy Data Integration

Features

- Integrates legacy data with LAN and voice/fax traffic over a common private leased line, ISDN, or public frame relay link for substantial cost savings

- Locally-attached frame relay devices can transparently pass traffic to the public frame relay network, protecting your capital equipment investment

- Two built-in voice/fax channels

- New 8 Kbps ClearVoice™ technology for telephone conversations with toll quality while consuming minimal bandwidth

- Flash memory simplifies network upgrades

- A primary link can be established based on time-of-day configurations for economic remote access

- Modular 3-slot design provides for optional Integrated Router Module, voice/fax and legacy data expansion

- Synchronous channel speeds up to 64 Kbps for superior performance in SNA/SDLC networks

- Asynchronous port switching and contention allow remote users to share resources

- Supports PC-based NETMan™ network management system

- Three-year hardware warranty

MICOM®
The Voice of Networking™

Overview

The Marathon 3K combines built-in voice/fax and legacy data integration with optional LAN integration and routing capabilities for convenient branch-office internetworking. An economic three-slot modular design allows for an additional voice/fax module, legacy data expansion or an Integration Router Module.

Marathon 3K utilizes either private leased lines or public frame relay services for cost-effective internetworking. ™MicroBand ATM cell relay allows optimal throughput for integrated traffic over private leased lines. A MicroBand ATM port can be configured for wide-area link backup.

For public frame relay access, the Marathon 3K allows integrated communications traffic to travel over a common PVC to its destination. Multiple frame relay links can be configured to segment traffic for access to multiple public frame relay carriers. The Marathon 3K also allows locally-attached frame relay devices, including those that support RFC 1490 encapsulation, token ring and SNA applications, to transparently pass traffic to the public frame relay network.
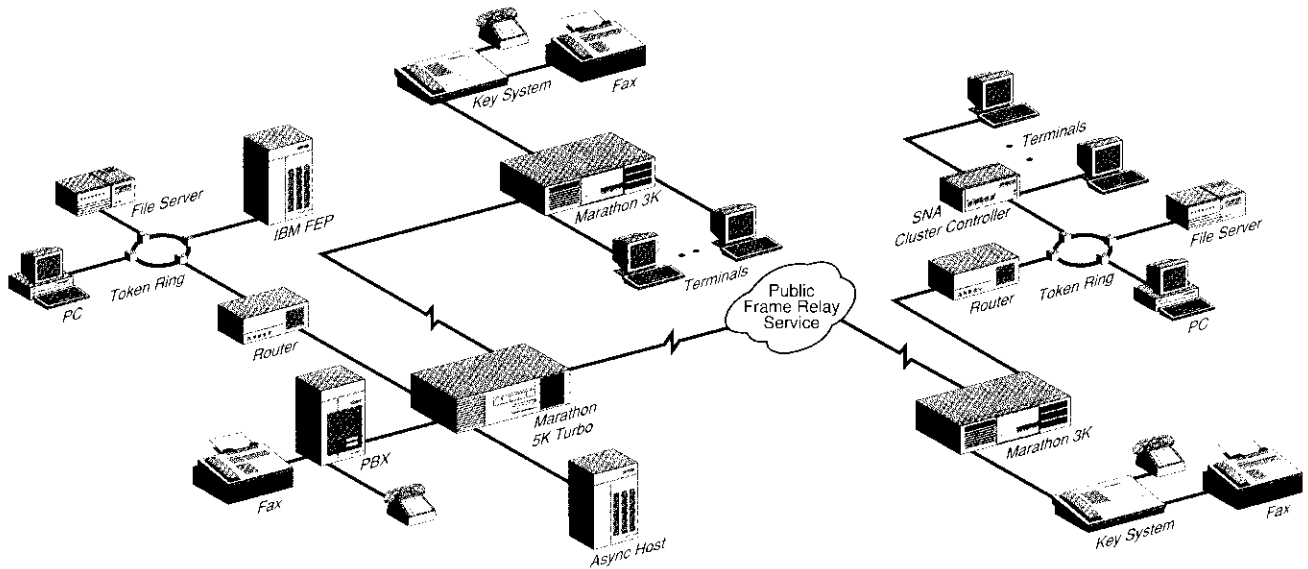
The Marathon 3K supports ClearVoice technology on its built-in voice ports, based on the International Telecommunications Union's (ITU) G.729 standard for wide-area voice compression. A new, more powerful digital signal processor and advanced algorithm provide toll quality voice at 8 Kbps compression rates. Silence suppression and other bandwidth efficiencies reduce the average consumed bandwidth by more than half.

The Marathon 3K handles virtually all legacy data protocols, including DEC VT100, H-P ENQ/ACK and SNA/SDLC. For LAN traffic, an optional Integration Router Module provides robust LAN routing capabilities. High-speed legacy data and LAN compression provide optimal bandwidth efficiency.

The Marathon 3K provides built-in integration of voice/fax communications with LAN and legacy traffic over public frame relay or private leased lines.

Specifications

Marathon 3K in a Hybrid Network that Combines MicroBand ATM, Private Leased Lines and Public Frame Relay Links

COMPOSITE WAN LINKS
Primary (Port A1)
Female, DB-25, strap-selectable as RS232,
X.21, or V.35; configured as DCE; serial
synchronous; internal/external clocking

Secondary Backup Link (Port A2)
Female, DB-25 RS232; configured as DCE;
serial synchronous; internal/external clocking

MicroBand ATM LEASED LINE ACCESS
1 Link supporting access rates from 2400 bps
to 128 Kbps

FRAME RELAY ACCESS (Port A1 and A2)
2 Physical Links configurable up to 48 PVCs*
Access Rates: 56 Kbps to 1.536 Mbps (T1)
Maximum Sustained Throughput: 384 Kbps

VOICE/FAX CHANNELS
Base Unit with 2 built-in Voice/Fax Channels
Supports CEPT L1 (AC15) and RON/TRON

Interfaces Supported on Base Unit:
E&M 2 & 4 wire, I, II, IV, V, FXS, FXO

Voice/Fax Expansion Models Supported:
TUVM, VM and UVM

Maximum Voice/Fax Channels Supported: 4

DATA CHANNELS
Female, DB-25; full-duplex; configured as DCE

Maximum Async Data Channels: 26
Maximum Sync Data Channels: 2 (Ports A2 and A3)

Data Expansion Models Supported:
5000E/6, 5000E/12, 5000E/12LD

Data Rates:
Async: Up to 38.4 Kbps
Sync: Up to 64 Kbps*

Flow Control: EIA (RTS/CTS, DTR/DSR); XON/XOFF;
HP ENQ/ACK; Tandem; Wang and Data General

Protocols Supported:
Most standard async and sync protocols

INTEGRATION ROUTER MODULE (IRM) OPTION
Ethernet IP/IPX routing and tranparent bridging
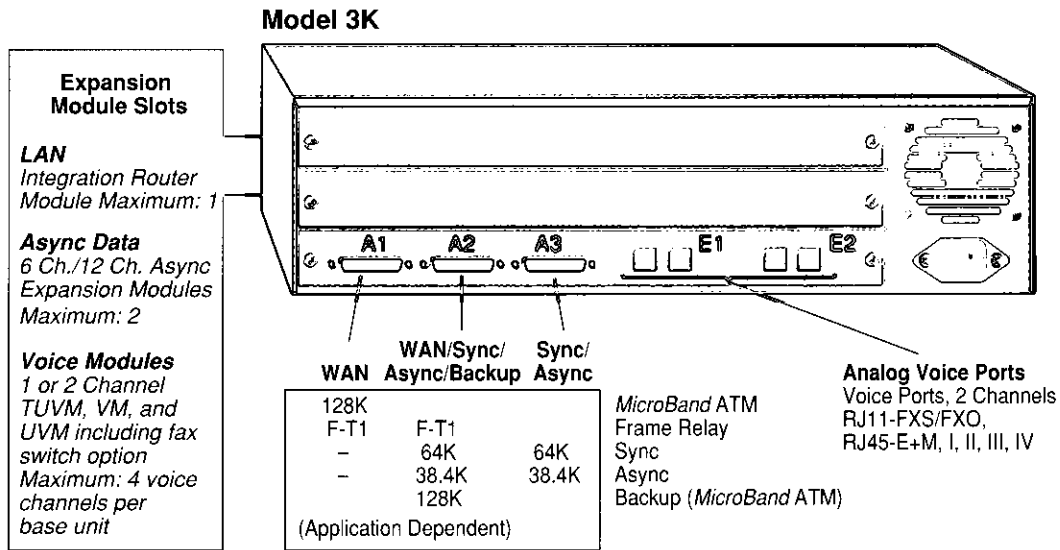
CODE DOWNLOAD
Single-Bank Flash memory supplied with base system;
Dual-Bank Flash available as an upgrade with realtime
clock (5003M/RTC, SIMM module)

COMPATIBLE MICOM PRODUCTS
All MICOM Marathon products; link compatible with
MICOM NetRunner® and STADIA™ products

* Application dependent

Specifications

Model 3K

Expansion Module Slots

LAN
Integration Router
Module Maximum: 1

Async Data
6 Ch./12 Ch. Async
Expansion Modules
Maximum: 2

Voice Modules
1 or 2 Channel
TUVM, VM, and
UVM including fax
switch option
Maximum: 4 voice
channels per
base unit

WAN	WAN/Sync/ Async/Backup	Sync/ Async
128K		
F-T1	F-T1	
–	64K	64K
–	38.4K	38.4K
	128K	
(Application Dependent)		

MicroBand ATM
Frame Relay
Sync
Async
Backup (*MicroBand* ATM)

Analog Voice Ports
Voice Ports, 2 Channels
RJ11-FXS/FXO,
RJ45-E+M, I, II, III, IV

DIAGNOSTICS
Startup, Local/Remote Channel Loopbacks,
Local/Remote Composite Loopbacks

MANAGEMENT OPTIONS
MICOM's PC-based NETMan network
management system; a local/remote terminal;
using IRM option and an SNMP-based
console (public domain, MIB II, monitor mode)

PHYSICAL DIMENSIONS
Width   17.4 inches (44.2 cm)
Height   4.4 inches (11.2 cm)
Depth   11.8 inches (30 cm)
Weight   13 lbs (5.9 kg)

POWER REQUIREMENTS
100-240 Vac -5%, +10%, 1-2 amps;
47 to 63 Hz, 88 watts maximum

OPERATING ENVIRONMENT
Temperature:
32° to 122° F (0 to 50° C) operating
-40° to +158° F (-40 to +70° C) storage

Humidity:
10 to 90% relative humidity (noncondensing) operating
0 to 95% relative humidity (noncondensing) storage

AGENCY COMPLIANCE
FCC Part 15 Level A, FCC Part 68,
     C.R.C., c. 1374
EN55022 (CISPR 22 Level B)
EN50082-1:1992 (contact MICOM for
     IEC801/EN55024 compliances)
UL 1950:1993
CSA Standard C22.2 No. 950:1993
IEC 950:1991+A1:1992
TUV: EN60950:1992, EN41003:1993,
     BABT/BS-340
EU Declarations of Conformity

nsai

I.S. EN ISO 9001

For more information or the location of the
MICOM Certified Distributor closest to you,
call our Applications Hotline.

In the United States call:
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In Europe call:
Tel: 44 (0) 1252 781 777 • Fax: 44 (0) 1252 781 717

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Tel: 65 334 6557 • Fax: 65 334 5845

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Tel: (813) 538-7719 • Fax: (813) 539-1425

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