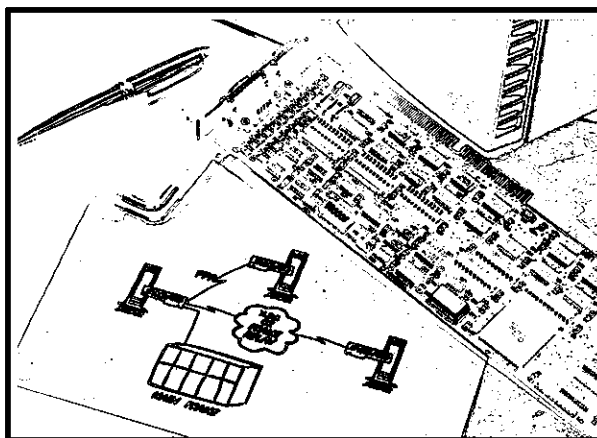


# Digi SYNC/570 Family

## Two and Four-Port High Speed Synchronous Adapters for ISA and Micro Channel Systems



- Ideal hardware platform for X.25, Frame Relay, SNA and server-based router connectivity
- Can be used with Switched 56, T1 or E1 connections
- Line speeds up to 5 Mbps
- Extensive third party X.25, SNA and Frame Relay solutions for SCO UNIX, AIX, DOS, Windows, QNX and OS/2
- Complements Digi's complete product line of NetWare and Microsoft Windows NT solutions

The Digi SYNC/570 family of high-performance synchronous WAN communication adapters is the most cost-effective line of products for LAN-to-LAN, client-to-LAN, and client-to-IBM host connectivity. As complete hardware and software solutions, SYNC/570 products provide tightly integrated remote LAN connectivity for major operating environments including Novell NetWare and Windows NT. This makes them ideal branch and enterprise solutions where two to 16 ports per server are required.

The product family includes two-and four-port models for ISA or Micro Channel platforms. All have an advanced feature set that allows them to support line speeds better than T1/E1. These features include a design based on the Hitachi HD64570 Serial Communications Adapter (SCA) chip. This highly-integrated subsystem provides support for two synchronous serial ports, four DMA channels, plus interrupt and timer logic. In addition, it has many protocol-specific features designed to maximize performance by minimizing driver overhead.

The key to the SYNC/570's performance is its integral DMA-to-shared memory architecture. Its on-board 128K or 256K memory is directly addressable by both the system and the SCA's DMA. Program-initiated DMA transfers operate at DMA/memory speed independently of other system activity. This results in reduced system overhead and hardware line speeds up to 5 Mbps.

For ease of use, the SYNC/570 family is software configurable. Shared memory is accessed through a 16K window that is assignable to any 16K boundary in the first 16MB of system memory. In addition, the memory is tri-stated, which allows multiple boards in a system to share a common window address. Micro Channel versions can also be configured to share a common interrupt request line.

A Developer's Toolkit is also available to assist programmers in developing custom applications for the SYNC/570 family.



# Features/Specifications

## Features

- Hitachi 10 MHz HD64570 Serial Communications Adapter
- Compatible with 16-bit ISA or Micro Channel systems
- Ports
  - SYNC/570: Two EIA-232D
  - SYNC/570i: Two or four user-selectable EIA-232D/V.35 or EIA-530/X.21 ports
- Cabling
  - SYNC/570: Two eight-foot DB-15 (male) to EIA-232D DB-25 (male)
  - SYNC/570i: Dual or quad six-foot octopus cable with DB-25 (male) connectors (EIA-232D, EIA-530); DB-15 (male) connectors (X.21); dual or quad V.35 connectors
- Memory
  - SYNC/570: 128K dual-ported
  - SYNC/570i: 256K dual ported on four-port models; 128K on two-port models
- 16K shared memory window
- Full modem control
- Up to 5 Mbps baud rate per line on SYNC/570i; 150 Kbps with SYNC/570
- Two-port models support four DMA channels; four-port products support eight
- Software configurable PC interrupts; 3, 5, 7, 10, 11, 12, 15
- Tri-state IRQ logic for Micro Channel
- SurgeBlock™ protection on SYNC/570i
- DOS-based diagnostics
- Developer's Toolkit available

## Modem Signals

- EIA-232D: TXD, RXD, CTS, RTS, DSR, DTR, TXCin, TXCout, RXC, DCD
- V.35: TXD+, RXD+, CTS, RTS, DSR, DTR, TXCin+, TXCout+, RXC+, DCD
- EIA-530: TXD+, RXD+, CTS+, RTS+, DSR+, DTR+, TXCin+, TXCout+, RXC+, DCD+
- X.21: TXD+, RXD+, Control+, Indicator+, DCEclk+, DTEclk+

## Regulatory Approvals

- FCC Class A (SYNC/570 and SYNC/570i MCA )
- FCC Class B (SYNC/570i ISA)
- Net 2 Layer 1
- CE Mark

## Environmental Requirements

- Operating temperature: 50° F to 131° F (10° C to 55° C)
- Relative humidity: 5% to 90% non-condensing
- Altitude: 0 to 12,000 ft (0 to 3,660 m)

## Power Requirements

### SYNC/570

- .75A @ +5VDC
- 40 mA @ +12VDC

### SYNC/570i – Two Port

- 1.0A @ +5VDC
- 65mA @ -5VDC
- 40mA @ +12VDC

### SYNC/570i – Four Port

- 1.5A @ +5VDC
- 125mA @ -5VDC
- 75mA @ +12VDC

## Dimensions

### SYNC/570

- ISA:
- Height 3.7 in. (9.4 cm)
  - Width: .75 in. (1.9 cm)
  - Length 11.3 in. (28.7 cm)
  - Weight .39 oz. (.01 kg)

### MCA:

- Height 3.5 in. (9 cm)
- Width: .75 in. (1.9 cm)
- Length 12.3 in. (31.2 cm)
- Weight .38 oz. (.01 kg)

### SYNC/570i

- ISA:
- Height 3.7 in. (9.4 cm)
  - Width: .75 in. (1.9 cm)
  - Length 11.3 in. (28.7 cm)
  - Weight .62 oz. (.01 kg)

### MCA:

- Height 3.5 in. (9 cm)
- Width: .75 in. (1.9 cm)
- Length 12.3 in. (31.2 cm)
- Weight .62 oz. (.02 kg)

## Digi Service And Support

You can purchase the SYNC/570 products with confidence knowing that Digi is here to support you with expert technical support, the industry's strongest warranty (five full years) and a 30 day money-back guarantee.

## Software Support

Novell NetWare, Windows NT, SCO UNIX, UNIXWare



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