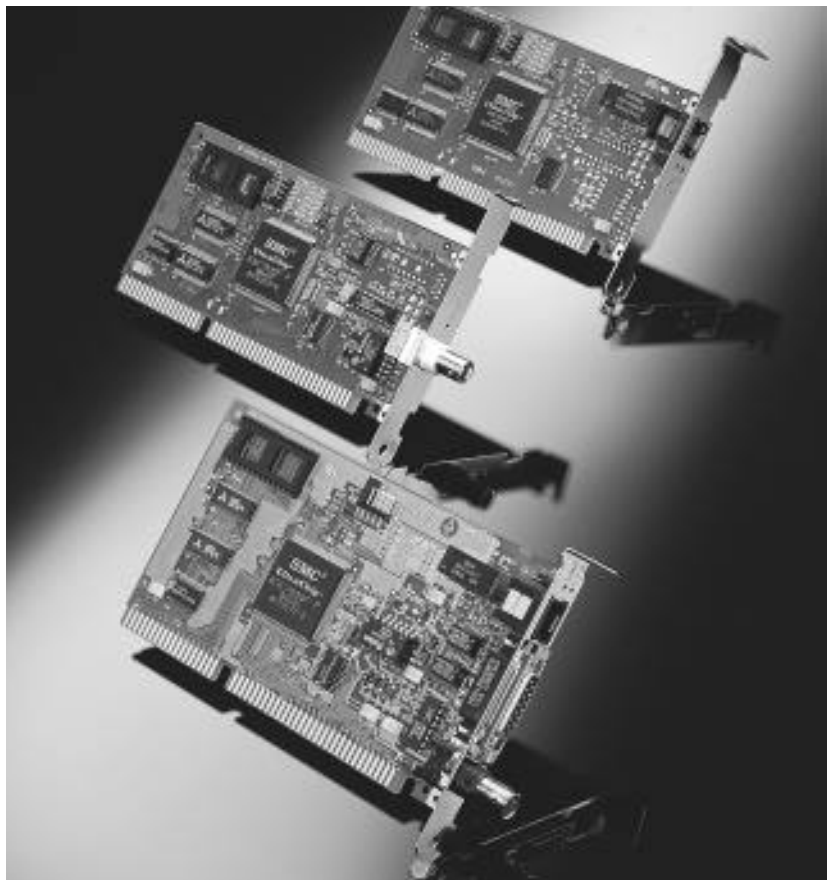




EtherCard Elite16 Ultra

ISA Ethernet Adapters

10BASE-T, Thin Coax and Combo Models



Get the Ultra Advantage

SMC's 16-bit EtherCard Elite Ultra™ adapters are based on our UltraChip™ single-chip solution for outstanding performance, unsurpassed reliability and exceptional value. According to LANQuest Labs, they outperform all competition.*

Ultra adapters feature SimulTasking™, a technique that uses pipelined data transfers for a dramatic increase in performance. Rather than transferring each packet fully into the adapter's buffer before forwarding it either to the PC or the cable, the forwarding of a packet begins before it has been fully received. This process of overlapping packet transfers significantly improves the data transfer rate.

Ultra adapter configuration, diagnostics and driver installation are a snap with our EZStart™ utility. What's more, our Ultra adapters are backed by a lifetime warranty. With SMC's EtherCard Elite Ultra adapters, you get the Ultra Advantage!

These adapters come in three models: 10BASE-T, thin coax and combo. For economy, the 10BASE-T adapter has a single RJ-45 connector and the thin coax adapter has a single BNC connector. For versatility in attaching to twisted-pair, thin or thick coax wiring, the combo adapter features three connectors: RJ-45, BNC and AUI.



*Call SMC for a free copy of the LANQuest Labs Report.

Features/Benefits

Outstanding Performance:

- ◆ SMC's unique SimulTasking pipelined data transfer technique for top performance
- ◆ Large dual-ported RAM for fast data buffering
- ◆ Zero wait state memory transfers for maximum performance and lower CPU utilization

Easy to Install and Use:

- ◆ Auto-configurable
- ◆ EZStart utility simplifies driver installation
- ◆ Four preassigned hardware settings eliminate need to configure adapter via software
- ◆ Automatic signal polarity detection and correction of reversed twisted-pair wires
- ◆ Diagnostic LEDs easily visible on bracket
- ◆ On-board socket for optional auto-boot ROM

Compatible:

- ◆ IEEE 802.3 and ISO/IEC 8802-3 standards

Desktop Management:

- ◆ SMC's PC Agent/SNMP for desktop management from any SNMP-based Manager

Versatile:

- ◆ Combo model has RJ-45, BNC and AUI connectors for use in any Ethernet environment

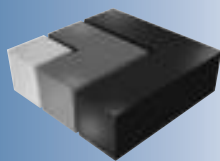
Reliable:

- ◆ Lifetime warranty
- ◆ Mean Time Between Failure (MTBF) in excess of 400 years
- ◆ FCC Class B certified

Support for Popular Network Operating Systems

- ◆ Novell NetWare: DOS ODI and OS/2 ODI Workstation, 286 and 386 (3.x/4.x) Server
- ◆ Microsoft: Windows for Workgroups, Windows NT and LAN Manager
- ◆ Banyan VINES
- ◆ IBM LAN Server
- ◆ DEC Pathworks
- ◆ Artisoft LANtastic
- ◆ UNIX: SCO, ISC, UNIXWare, SunSoft Solaris, NeXTSTEP
- ◆ NDIS: DOS and OS/2
- ◆ Packet Driver
- ◆ Plus many other drivers available on SMC's Bulletin Board

SMC®



SMC **UNITY**

Adapters
Workgroup Hubs
Workgroup Switches

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(516) 435-6255

Fax: (516) 273-1803

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Oakville, Ontario, CANADA
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Phone: (305) 264-7657
Fax: (305) 264-8321

◆ TMC—Japan
Tokyo, JAPAN
Phone: 81 (3) 57212271
Fax: 81 (3) 57212270

◆ SMC's Fax-on-Demand
System—EliteFax™
(800) SMC-8329 from
U.S.A. and Canada
(516) 435-6107 Elsewhere

SMC
STANDARD
MICROSYSTEMS
CORPORATION

EtherCard Elite16 Ultra

ISA Ethernet Adapters

10BASE-T, Thin Coax and Combo Models

Specifications

Adapter Types

8216T (RJ-45 connector)
8216 (BNC connector)
8216C (RJ-45, BNC, AUI connectors)

Network Interface

RJ-45 (UTP Cable; EIA/TIA Categories 3, 4, 5)
BNC (Coax Cable, RG-58A/U or RG-58C/U)
AUI (External Transceiver Drop)

Weight

8216T (3.0 oz./85.1 gm)
8216 (3.5 oz./99.2 gm)
8216C (3.6 oz./102.1 gm)

Size (without bracket)

8216T, 8216
6.245 in. x 3.08 in. (15.9 cm x 7.8 cm)
8216C
6.245 in. x 3.695 in. (15.9 cm x 9.4 cm)

Diagnostic LEDs

8216T, 8216C
Network Activity
Link Integrity
8216
Network Activity

Bus Interface

16-bit AT
32-bit EISA
8-bit XT

Interface to PC

Memory mapped

DMA Channel

None

I/O Base Addresses

200, 220, 240, 260, 280, 2A0, 2C0, 2E0,
300, 320, 340, 360, 380

Interrupt Channels

2/9, 3, 5, 7, 10, 11, 15

RAM

Buffer Size
16 KB
Base Addresses
C000, C200, C400, C600, C800, CA00,
CC00, CE00, D000, D200, D400, D600,
D800, DA00, DC00, DE00, E000, E200,
E400, E600, E800, EA00, EC00
Speed
35 ns, 0 wait states enabled or disabled

Optional Boot ROM

Window Size
16 KB
Base Addresses
C000, C200, C400, C600, C800, CA00,
CC00, CE00, D000, D200, D400, D600,
D800, DA00, DC00, DE00, E000, E200,
E400, E600, E800, EA00, EC00, EE00
Protocols
Native NetWare Core
LAN Manager
IBM LAN Server
Type
27512 (200 ns access time)

Temperature

Operating
32° to 131° F (0° to 55° C)
Storage
-4° to 158° F (-20° to 70° C)

Humidity

Operating
10% to 90%
Storage
5% to 95%

Operating Voltage

+12 VDC ± 10% @ 47 mA (typical),
55 mA (maximum)
10BASE-T mode
+5 VDC ± 5% @ 320 mA (typical),
457 mA (maximum)
10BASE2 mode
+5 VDC ± 5% @ 610 mA (typical),
870 mA (maximum)
External Transceiver
+12 VDC ± 10% @ 500 mA (maximum)

Ethernet Standards

IEEE 802.3
ISO/IEC 8802-3

Compliances

Safety
UL 1950
EN60950 (TÜV)
CSA 22.2 No. 950 (UL)
Emissions
FCC Class B
CDOC Class B
BMPT Vfg 243/1991

Warranty

Lifetime

Product*	Order Number	Description
EtherCard Elite16T Ultra™	SMC-E16T	10BASE-T Adapter
EtherCard Elite16 Ultra™	SMC-E16	Thin Coax Adapter
EtherCard Elite16C Ultra™	SMC-E16C	Combo Adapter
Accessory	SMC-UROM	Optional Boot ROM

* All adapters also available in 6-, 24- and 50-packs. 10BASE-T and coax adapters with AUI connector also available in 6-packs.

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