

- [Intel® PRO/1000 Family of Fiber Adapters](#)
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Intel® PRO/1000 Family of Fiber Adapters

Product Features	Intel® PRO/1000 Gigabit Server Adapter	Intel® PRO/1000 F Server Adapter	Intel® PRO/1000 XF Server Adapter	Intel® PRO/1000 MF Server Adapter (SX)	Intel® PRO/1000 MF Server Adapter (LX)	Intel® PRO/1000 MF Dual Port Server Adapter (SX)
Controller	82542	82543	82544EI	82545EM 82545EG	82545EM 82545GM	82546EB 82546GB
Bus Connector	PCI 2.1 32/64 bit (33 Mhz only)	PCI 2.2 32/64 bit 33/66 Mhz	PCI 2.2 or PCI-X 1.0a 32/64 bit 33/66/100/133 Mhz			
Transmission Connector	SX Fiber Optic/ SC	SX Fiber Optic/ SC	SX Fiber Optic/ SC	SX Fiber Optic/ LC	LX Fiber Optic/ LC	SX Fiber Optic/ (2)LC
Cabling	50u MMF 550m 62.5u MMF 275m				50u & 62.5 MMF 550m 9u SMF 10km	50u MMF 550m 62.5u MMF 275m
Power Requirements	1.0A @ +5VDC (5.0 watts)	1.0A @ +5VDC (5.0 Watts)	.9A @ +5VDC (4.48 Watts)	(3.0 Watts)	(3.0 Watts)	(4.0 Watts)
	Power support provided for both 5.0 v and 3.3v aux. with key form factor for both signaling voltages					
Interrupt	INTA					
Dimensions (excluding bracket)	6.42 x 3.25 in. (16.30 x 8.26 cm)	6.39 x 2.50 in. (16.23 x 6.35 cm)	6.39 x 2.50 in. (16.23 x 6.35 cm)	6.39 x 2.53 in. (16.22 x 6.42 cm)	6.39 x 2.50 in. (16.23 x 6.35 cm)	6.39 x 2.53 in. (16.22 x 6.42 cm)
Operating Temperature	All Adapters: Operating: 32 - 131 degrees F, 0 - 55 degrees C -- Non-operating: -40 - +70 degrees C					
MTBF	22 years	22 years	126 years	135 years	126 years	126 years
Available Speeds	1000 full-duplex only					
Standards Conformance	IEEE 802.1p IEEE 802.1Q IEEE 802.3ac IEEE 802.3ad IEEE 802.3x IEEE 802.3z PCI v2.1	IEEE 802.1p IEEE 802.1Q IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x IEEE 802.3z ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ac IEEE 802.3ad IEEE 802.3x IEEE 802.3z PCI v2.2 PCI-X v1.0 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ac IEEE 802.3ad IEEE 802.3x IEEE 802.3z PCI v2.2 PCI-X v1.0 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ac IEEE 802.3ad IEEE 802.3x IEEE 802.3z PCI v2.2 PCI-X v1.0 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ac IEEE 802.3ad IEEE 802.3x IEEE 802.3z PCI v2.2 PCI-X v1.0 ACPI

H/W LEDs ● sgl color ● dual color	● TX Activity ● RX Activity ● Link ● Identity	● TX Activity ● RX Activity ● Link ● Identity	● Link Activity ● Identity	● Link & Activity / Identity	● Link & Activity / Identity	● Link & Activity / Identity
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Intel® PRO/1000 Family of Copper Adapters

Product Features	Intel® PRO/1000 T Server Adapter	Intel® PRO/1000 T DESKTOP Adapter	Intel® PRO/1000 XT Server Adapter	Intel® PRO/1000 MT DESKTOP Adapter	Intel® PRO/1000 GT DESKTOP Adapter	Intel® PRO/1000 MT Server Adapter	Intel® PRO/1000 MT Dual Port Server Adapter
Controller	82543	82544GC	82544EI	82540EM 82541	82541PI	82545EM 82545GM	82546EB 82546GB
Bus Connector	PCI 2.2 32/64-bit, 33/66 Mhz	PCI 2.2 32-bit, 33/66 Mhz	PCI 2.2 PCI-X 1.0 32/64-bit, 33/66 Mhz	PCI 2.2 32-bit, 33/66 Mhz	PCI 2.2 PCI-X	PCI 2.2 PCI-X 1.0a 32/64-bit, 33/66 Mhz	PCI 2.2 PCI-X 1.0a 32/64-bit, 33/66 Mhz
Transmission Connector	Twisted Pair Copper/ RJ-45						
Cabling	1000Base-T (CAT5 - 4 pair)						
Power Requirements	1.18A @ +5VDC (5.9 Watts)	1.25A @ +5VDC (6.25 Watts)	1.25A @ +5VDC (6.25 Watts)	800 mA @ 5VDC (4.0 Watts)	800 mA @ 5VDC (4.0 Watts)	1.25A @ +5VDC (6.25 Watts)	1.25A @ +5VDC (6.25 Watts)
	Power support provided for both 5.0 v and 3.3v aux. with key form factor for both signaling voltages						
Interrupt	INTA						INTA, INTB
Dimensions (excluding bracket)	6.42 x 3.40 in. (16.30 x 8.26 cm)	4.70 x 2.00 in. (11.93 x 5.07 cm)	6.39 x 2.53 in. (16.22 x 6.42 cm)	4.70 x 2.00 in. (11.93 x 5.07 cm)	6.39 x 2.53 in. (16.22 x 6.42 cm)	4.70 x 2.00 in. (11.93 x 5.07 cm)	
Operating Temperature	All Adapters: Operating: 32 - 131 degrees F, 0 - 55 degrees C -- Non-operating: -40 - +70 degrees C						
MTBF	106 years	135 years	135 years	107 years	107 years	135 years	107 years
Available Speeds	10/100/1000 auto-negotiate						
Duplex Modes	Full/half at 10/100 Mbps; Full 1 Gbps.						

Standards Conformance	IEEE 802.1p IEEE 802.1Q IEEE 802.3ab IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x PCI v2.2 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ab IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x PCI v2.2 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ab IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x PCI v2.2 PCI-X v1.0 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ab IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x PCI v2.2 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ab IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x PCI v2.2 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ab IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x PCI v2.2 PCI-X v1.0 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ab IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x PCI v2.2 PCI-X v1.0 ACPI	IEEE 802.1p IEEE 802.1Q IEEE 802.3ab IEEE 802.3ac IEEE 802.3ad IEEE 802.3u IEEE 802.3x PCI v2.2 PCI-X v1.0 ACPI
H/W LEDs ● sgl color ● dual color	● Link ● Rx/Tx Activity ● Speed ● Identity / Bus ID	● Link & Activity / Identity ● Speed	● Link & Activity / Identity ● Speed	● Link & Activity / Identity ● Speed	● Link & Activity / Identity ● Speed	● Link & Activity / Identity ● Speed	● Link & Activity / Identity ● Speed	● Link & Activity / Identity ● Speed
Regulatory and Safety	All adapters: FCC Class B Radiated and Conducted Emissions requirements for U.S. and Canada VCCI Class B Radiated and Conducted Emissions requirements for Japan BSMI Class B Radiated and Conducted Emissions requirements for Taiwan CISPR 22 Class B Radiated and Conducted Emissions requirements for Australia/New Zealand EN55022 Class B Radiated and Conducted Emissions requirements for European Union (EU) EN55024 Immunity requirements for European Union (EU) EN60950 Safety requirements for European Union (EU) UL (Underwriter's Laboratories) and Canada UL Safety requirements							

More adapter information is available on the [Intel Support](#) Web page.

Note: Intel adapter feature support may be limited by the hardware, OS and driver software for your particular platform.

Standards

- IEEE 802.1p: Priority Queuing (traffic prioritizing) and Quality of Service levels
- IEEE 802.1Q: Virtual LAN identification
- IEEE 802.3ab: Gigabit Ethernet over copper
- IEEE 802.3ac: Tagging
- IEEE 802.3ad: Link Aggregation
- IEEE 802.3u: Fast Ethernet
- IEEE 802.3x: Flow Control
- IEEE 802.3z: Gigabit Ethernet over optical fiber
- ACPI: Advanced Configuration and Power Management
- PCI: system bus specification: 32/64-bit, 33/66 Mhz (any combination, unless otherwise noted)
- PCI-X: system bus specification: 64-bit, 66/100/133 Mhz (any combination)