

# 产品承认书

## SPECIFICATION FOR APPROVAL

客户 Customer: \_\_\_\_\_

产品名称 Model Name: Intel I210 PCIe 1x Fiber Lan Card

产品编号 Model number: TXA026

日期 Date: \_\_\_\_\_

### SIGNATURE:

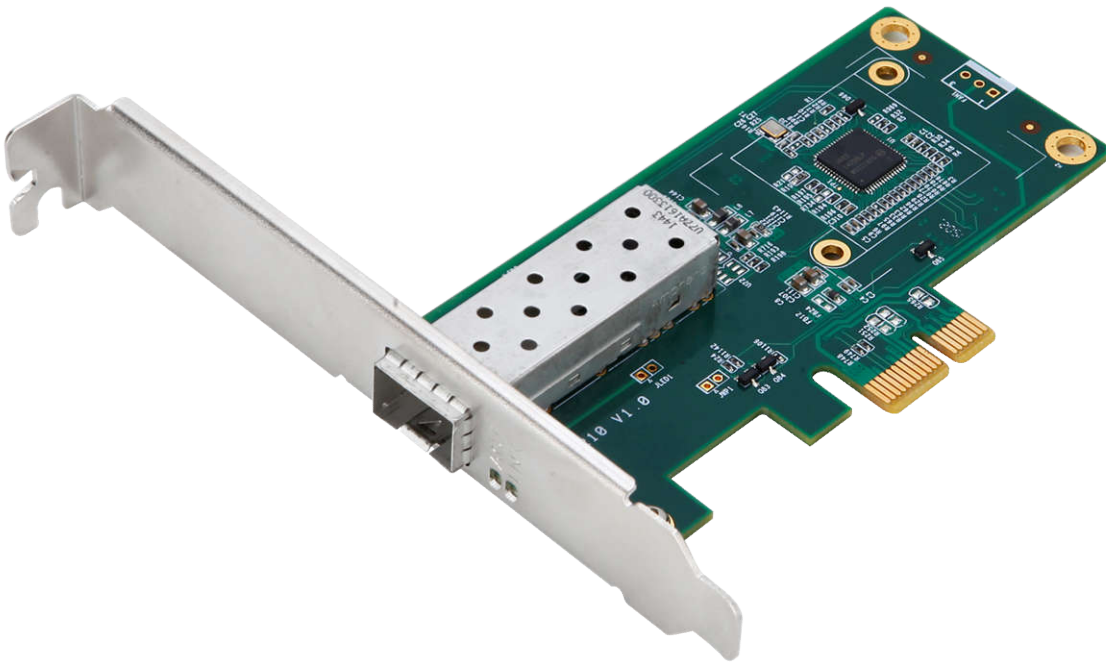
业务 SALES	工程 ENG	制造 MFG	品质 QUALITY
APPROVED BY	CHECKED BY	CHECKED BY	TESTED BY

### CUSTOMER APPROVAL:

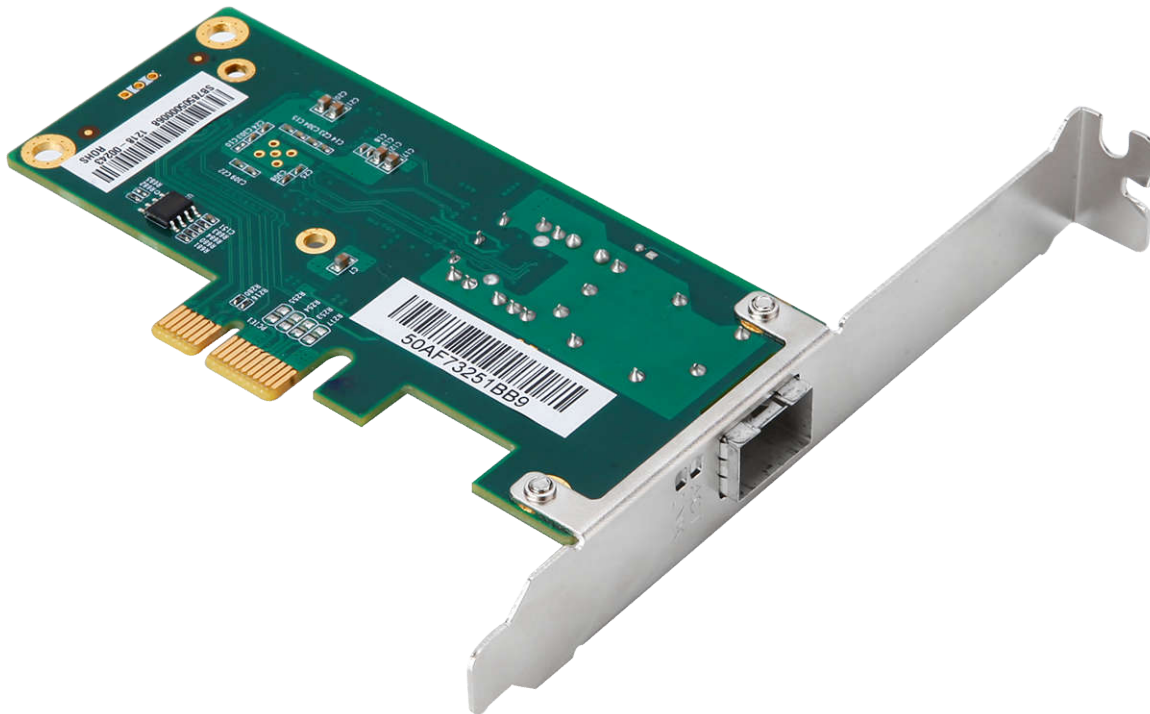
CUSTOMER APPROVAL BY	
DATE	

# 1、Product Photo

Top:



Bottom:



## 2、Product specification

Model number	TXA026
Chipset	Intel I210 Ethernet Controller
Port number	SFP*1
Standard	IEEE802.3, IEEE802.3u, IEEE802.3az, IEEE802.3x、IEEE 802.1q, IEEE802.3ab
Data rate	10/100/1000Mbps
Interface	PCI express 1x
LED Indicator	10/100/1000Mb (Link/Act)
Dimension	103.5*54*13*mm
Support OS	Windows®10(32/64), 8 / 8.1 (32/64), 7 (32/64), Vista(32/64), XP(32/64), 2000 Windows Server® 2012, 2008 R2, 2003(32/64) Mac OS® 10.x (Intel based, tested up to 10.9) Linux 2.4.x and later (Tested up to 3.5)
Environment	Operating Temperature: 0 °C-70 °C
	Relative Humidity: 10%-90%(non-condensing)
	Storage Temperature: -0°C-80°C
	Relative Humidity: 5%-90%(non-condensing)
Other Functions	VLAN Support PXE and Iscsi boot

### 3、 Chipset Description:

The Intel® Ethernet Controller I210 (I210) is a single port, compact, low power component that supports GbE designs. The I210 offers a fully-integrated GbE Media Access Control (MAC), Physical Layer (PHY) port and a SGMII/SerDes port that can be connected to an external PHY. The I210 supports PCI Express\* [PCIe v2.1 (2.5GT/s)].

The I210 enables 1000BASE-T implementations using an integrated PHY. It can be used for server system configurations such as rack mounted or pedestal servers, in an add-on NIC or LAN on Motherboard (LOM) design. Another possible system configuration is for blade servers as a LOM or mezzanine card. It can also be used in embedded applications such as switch add-on cards and network appliances

#### Features:

- Small package: 9 x 9 mm
- PCIe v2.1 (2.5 GT/s) x1, with Switching Voltage Regulator (iSVR)
- Integrated Non-Volatile Memory (iNVM)
- Three single port SKUs: SerDes, Copper, Copper IT
- Value Part (Intel® Ethernet Controller I211)
- Platform Power Efficiency
  - IEEE 802.3az Energy Efficient Ethernet (EEE)
  - Proxy: ECMA-393 and Windows\* logo for proxy offload
- Advanced Features:
  - Audio-video bridging
  - IEEE 1588/802.1AS precision time synchronization
  - IEEE 802.1Qav traffic shaper (with software extensions)
    - Jumbo frames
    - Interrupt moderation, VLAN support, IP checksum offload
    - PCIe OBFF (Optimized Buffer Flush/Fill) for improved system power management
    - Four transmit and four receive queues
    - RSS and MSI-X to lower CPU utilization in multi-core systems
    - Advanced cable diagnostics, auto MDI-X
    - ECC – error correcting memory in packet buffers
    - Four Software Definable Pins (SDPs)
- Manageability:
  - NC-SI for greater bandwidth pass through
  - SMBus low-speed serial bus to pass network traffic
  - Flexible firmware architecture with secure Flash update
  - MCTP over SMBus/PCIe
  - OS2BMC/CEM (optionally enabled via external Flash)
  - PXE and iSCSI boot

#### 4、LED State

NO.	Color	10M	100M	1G
LED1(Link)	Green	ON	ON	ON
LED2(ACT)	Green	Twinkle	Twinkle	Twinkle

#### 5、RD test result

##### 5.1 Compatibility test->PASS

NO.	Each Link(100MCAT5)	Internet Link	data packet (100MCAT5)
WindowsXP 32bit	PASS	PASS	PASS
Windows7 32bit	PASS	PASS	PASS
Windows7 64bit	PASS	PASS	PASS
Windows8 64bit	PASS	PASS	PASS
Windows10 64bit	PASS	PASS	PASS
Linux	PASS	PASS	PASS

##### 5.2 Data traffic test-PASS

```

C:\> TCP流量1-test
[176] 79.0-80.0 sec  111 MBytes  933 Mbits/sec
[ ID] Interval      Transfer      Bandwidth
[176] 80.0-81.0 sec  111 MBytes  927 Mbits/sec
[176] 81.0-82.0 sec  111 MBytes  927 Mbits/sec
[176] 82.0-83.0 sec  107 MBytes  898 Mbits/sec
[176] 83.0-84.0 sec  110 MBytes  924 Mbits/sec
[176] 84.0-85.0 sec  112 MBytes  941 Mbits/sec
[176] 85.0-86.0 sec  109 MBytes  914 Mbits/sec
[176] 86.0-87.0 sec  109 MBytes  918 Mbits/sec
[176] 87.0-88.0 sec  115 MBytes  961 Mbits/sec
[176] 88.0-89.0 sec  113 MBytes  945 Mbits/sec
[176] 89.0-90.0 sec  111 MBytes  934 Mbits/sec
[176] 90.0-91.0 sec  111 MBytes  932 Mbits/sec
[176] 91.0-92.0 sec  111 MBytes  930 Mbits/sec
[176] 92.0-93.0 sec  111 MBytes  934 Mbits/sec
[176] 93.0-94.0 sec  111 MBytes  934 Mbits/sec
[176] 94.0-95.0 sec  112 MBytes  937 Mbits/sec
[176] 95.0-96.0 sec  112 MBytes  936 Mbits/sec
[176] 96.0-97.0 sec  111 MBytes  933 Mbits/sec
[176] 97.0-98.0 sec  113 MBytes  949 Mbits/sec
[176] 98.0-99.0 sec  111 MBytes  930 Mbits/sec
[176] 99.0-100.0 sec 111 MBytes  930 Mbits/sec
[ ID] Interval      Transfer      Bandwidth
[176] 100.0-101.0 sec 111 MBytes  933 Mbits/sec
[176] 101.0-102.0 sec 111 MBytes  930 Mbits/sec
[176] 102.0-103.0 sec 111 MBytes  933 Mbits/sec
[176] 103.0-104.0 sec 111 MBytes  935 Mbits/sec
[176] 104.0-105.0 sec 112 MBytes  937 Mbits/sec
[176] 105.0-106.0 sec 112 MBytes  937 Mbits/sec
[176] 106.0-107.0 sec 113 MBytes  952 Mbits/sec
[176] 107.0-108.0 sec 111 MBytes  932 Mbits/sec
    
```

### 5.3 Link Test->PASS

