

# RUCKUS ICX 7550 Switch Technical Specifications

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# Contents

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- RUCKUS ICX 7550 Switch Technical Specifications..... 4**
- System Specifications ..... 4
- Ethernet..... 4
- LEDs..... 5
- Other..... 5
- Weight and Physical Dimensions..... 5
- Environmental Requirements..... 6
- Power Supply Specifications (Per PSU)..... 6
- Power Consumption (Typical Configuration)..... 7
- Power Consumption (Maximum Configuration)..... 8
- Power Consumption (Modules)..... 9
- Data Port Specifications (Ethernet)..... 9
- Serial Port Specifications (Pinout - USB Type-C)..... 10
- Serial Port Specifications (Pinout RJ-45)..... 11
- Serial Port Specifications (Protocol)..... 11
- Memory Specifications..... 11
- Regulatory Compliance (EMC) ..... 12
- Regulatory Compliance (Safety)..... 12
- Regulatory Compliance (Environmental) ..... 12

# RUCKUS ICX 7550 Switch Technical Specifications

This content highlights the features and specifications for the RUCKUS ICX 7550 switch.

## System Specifications

System Component	Description
Enclosure	Stackable up to 12 switches per stack, chassis-mountable (1U) in a standard 2 or 4-post rack
Power inlet	C14 for AC power; terminal block for DC power
Power supplies	Dual redundant, hot-swappable power supplies supported with intake or exhaust airflow. Non-PoE models use 400W AC and DC power supplies. PoE models use 1200W AC power supplies.
Fans	Dual redundant, hot-swappable fan assemblies with intake or exhaust airflow
Cooling	Forced-air cooling front-to-back or back-to-front
System architecture	Non-blocking shared-memory switch
System processors	Broadcom BCM56370 integrated ARM-based Cortex-A72 CPU running at 1.7 GHz.

## Ethernet

System Component	Description	Maximum Ports Supported
100 GbE QSFP28 ports	40/100 GbE QSFP28 stacking or uplink port	3 [2 stacking + 1 uplink]: <ul style="list-style-type: none"> <li>ICX 7550-24ZP</li> <li>ICX 7550-48ZP</li> <li>ICX 7550-24F</li> <li>ICX 7550-48F</li> </ul>
40 GbE QSFP+ ports	40 GbE QSFP+ stacking or uplink port	4 [2 stacking + 2 uplink]: <ul style="list-style-type: none"> <li>ICX 7550-24</li> <li>ICX 7550-48</li> <li>ICX 7550-24P</li> <li>ICX 7550-48P</li> </ul> 2 [2 uplink]: <ul style="list-style-type: none"> <li>ICX 7550-24ZP</li> <li>ICX 7550-48ZP</li> <li>ICX 7550-24F</li> <li>ICX 7550-48F</li> </ul>
10 GbE SFP+ ports	1/10 GbE SFP+ port	16 [12 downlink + 4 uplink]: <ul style="list-style-type: none"> <li>ICX 7550-24F</li> <li>ICX 7550-48F</li> </ul> 4 [4 uplink]: <ul style="list-style-type: none"> <li>ICX 7550-24</li> <li>ICX 7550-48</li> <li>ICX 7550-24P</li> <li>ICX 7550-48P</li> <li>ICX 7550-24ZP</li> <li>ICX 7550-48ZP</li> </ul>
1 GbE SFP ports	1 GbE SFP port	36 (ICX 7550-48F)

System Component	Description	Maximum Ports Supported
10 GbE RJ-45 Ports	100 Mbps/1 GbE/2.5 GbE/5 GbE/10 GbE RJ-45 port	12 (ICX 7550-24ZP and ICX 7550-48ZP)
2.5 GbE RJ-45 ports	100/1000/2500 Mbps RJ-45 port	<ul style="list-style-type: none"> <li>12 (ICX 7550-24ZP)</li> <li>36 (ICX 7550-48ZP)</li> </ul>
1 GbE RJ-45 ports	10/100/1000 Mbps RJ-45 port	<ul style="list-style-type: none"> <li>24 (ICX 7550-24)</li> <li>24 (ICX 7550-24P)</li> <li>48 (ICX 7550-48)</li> <li>48 (ICX 7550-48P)</li> </ul>
Ethernet management port	10/100/1000 Mbps RJ-45 port	All models

## LEDs

System Component	Description
Switch Status and Management	<p>The following LED types indicate switch status:</p> <ul style="list-style-type: none"> <li>PWR1 and PWR2 (power supply units)</li> <li>DIAG (diagnostics)</li> <li>SYS (system status)</li> <li>MS (stacking configuration)</li> <li>CLD (cloud/on-premise-SmartZone management status)</li> <li>UPDATE (software update)</li> <li>STAT, SPD, ID, USB status mode</li> </ul>
Ports	LEDs indicate port status or switch ID based on the status mode selection.

## Other

System Component	Description
Serial cable	1 (RJ-45 to RJ-45)
RJ-45 to DB9 adapter	1 adapter
AC power cord	IEC 320-C14

## Weight and Physical Dimensions

Model	Height	Width	Depth	Weight (with basic modules)
ICX 7550-24	4.4 cm	44.00 cm	40.64 cm	6.11 kg
	1.73 inches	17.32 inches	16 inches	13.47 lb
ICX 7550-48	4.4 cm	44.00 cm	40.64 cm	6.30 kg
	1.73 inches	17.32 inches	16 inches	13.89 lb
ICX 7550-24P	4.4 cm	44.00 cm	40.64 cm	6.74 kg
	1.73 inches	17.32 inches	16 inches	14.86 lb
ICX 7550-48P	4.4 cm	44.00 cm	40.64 cm	7.10 kg
	1.73 inches	17.32 inches	16 inches	15.65 lb

**RUCKUS ICX 7550 Switch Technical Specifications**  
**Environmental Requirements**

Model	Height	Width	Depth	Weight (with basic modules)
ICX 7550-24ZP	4.4 cm	44.00 cm	40.64 cm	6.98 kg
	1.73 inches	17.32 inches	16 inches	15.39 lb
ICX 7550-48ZP	4.4 cm	44.00 cm	40.64 cm	7.36 kg
	1.73 inches	17.32 inches	16 inches	16.23 lb
ICX 7550-24F	4.4 cm	44.00 cm	40.64 cm	6.04 kg
	1.73 inches	17.32 inches	16 inches	13.32 lb
ICX 7550-48F	4.4 cm	44.00 cm	40.64 cm	6.42 kg
	1.73 inches	17.32 inches	16 inches	14.15 lb

## Environmental Requirements

Condition	Operational	Non-operational
Ambient temperature	0°C to 45°C (32°F to 113°F) at sea level	-40°C to 70°C (-40°F to 158°F)
Relative humidity (non-condensing)	10% to 90% at 50°C (122°F)	5% to 95% at 70°C (158°F)
Altitude (above sea level)	0 to 3,048 m (10,000 feet)	0 to 12,000 m (39,370 feet)
Shock	20 G, 11 ms, half-sine wave	33 G, 11 ms, half-sine wave
Vibration	1 G sine, 0.4 gms random, 5-500 Hz	2.4 G sine, 1.1 gms random, 5-500 Hz
Airflow	Nominal: 10-14 cfm, Maximum: 56-84 cfm.	N/A
Heat Dissipation (+/- 5%)	Refer to Power Consumption specification sections	N/A
Operating noise	ICX 7550-24: 51 dBA ICX 7550-48: 51 dBA ICX 7550-24P: 51 dBA ICX 7550-48P: 51 dBA ICX 7550-24ZP: 51 dBA ICX 7550-48ZP: 56.7 dBA ICX 7550-24F: 51 dBA ICX 7550-48F: 51 dBA	N/A

## Power Supply Specifications (Per PSU)

All the RUCKUS ICX 7550 power supply units (PSUs) are field replaceable. All the AC PSUs use a C14 inlet and connect to standard AC power. All the DC PSUs use a three-input 48V DC connector and connect to a standard 48V DC power source.

Power Supply Model	Maximum Output Power Rating (DC)	Input Voltage	Input Line Frequency	Maximum Input Current	Input Line Protection	Maximum Inrush Current
RPS21-E	400 W	100-240V AC	50-60Hz	6A	Fuses	35A
RPS21-I	400 W	100-240V AC	50-60Hz	6A	Fuses	35A
RPS21DC-E	400 W	-48 - -60V DC	-	14.7 A	Fuses	100A
RPS21DC-I	400 W	-48 - -60V DC	-	14.7 A	Fuses	100A
RPS22-E	1030 W	100-180V AC	50-60Hz	15A	Fuses	50A
	1200 W	180-240V AC	50-60Hz	8A	Fuses	60A

Power Supply Model	Maximum Output Power Rating (DC)	Input Voltage	Input Line Frequency	Maximum Input Current	Input Line Protection	Maximum Inrush Current
RPS22-I	1030 W	100-180V AC	50-60Hz	15A	Fuses	50A
	1200 W	180-240V AC	50-60Hz	8A	Fuses	60A

## Power Consumption (Typical Configuration)

All downlink ports, stacking ports, and slot 2x40 GbE are linked up with 10 percent traffic rate; no PoE load on PoE models; two fan FRUs at nominal speed.

Model Name (Input Power +/-5%)	@100 VAC Input	@200 VAC Input	@-48 VDC Input	Minimum Number of Power Supplies	Notes
ICX 7550-24	53.2 W 181.4 BTU/hr	53.7 W 183.12 BTU/hr	55.68 W 189.87 BTU/hr	1 x 400W AC or 1 x 400W DC	1 PSU
	61 W 208.01 BTU/hr	62.1 W 211.76 BTU/hr	63.84 W 217.69 BTU/hr	2 x 400W AC or 2 x 400W DC	2 PSUs
ICX 7550-48	65 W 221.65 BTU/hr	65.3 W 222.67 BTU/hr	65.28 W 222.6 BTU/hr	1 x 400W AC or 1 x 400W DC	1 PSU
	70 W 238.7 BTU/hr	70.7 W 241.09 BTU/hr	72.96 W 248.79 BTU/hr	2 x 400W AC or 2 x 400W DC	2 PSUs
ICX 7550-24P	68.5 W 233.59 BTU/hr	69.1 W 235.63 BTU/hr	N/A	1 x 1200 W AC	1 PSU No PoE load
	81.4 W 277.57 BTU/hr	82.7 W 282.01 BTU/hr	N/A	2 x 1200 W ACDC	2 PSUs No PoE load
ICX 7550-48P	83.1 W 283.37 BTU/hr	83.4 W 284.39 BTU/hr	N/A	1 x 1200 W AC	1 PSU No PoE load
	94.2 W 321.22 BTU/hr	95.3 W 324.97 BTU/hr	N/A	2 x 1200 W AC	2 PSUs No PoE load
ICX 7550-24ZP	99.3 W 338.61 BTU/hr	99.8 W 340.32 BTU/hr	N/A	1 x 1200 W AC	1 PSU No PoE load
	121.3 W 413.63 BTU/hr	122.5 W 417.73 BTU/hr	N/A	2 x 1200 W AC	2 PSUs No PoE load
ICX 7550-48ZP	139.7 W 476.38 BTU/hr	138.6 W 472.63 BTU/hr	N/A	1 x 1200 W AC	1 PSU No PoE load
	151.7 W 517.3 BTU/hr	152.1 W 518.66 BTU/hr	N/A	2 x 1200 W AC	2 PSUs No PoE load
ICX 7550-24F	66.7 W 227.44 BTU/hr	66.8 W 227.78 BTU/hr	69.17 W 235.89 BTU/hr	1 x 400 W AC or 1 x 400 W DC	1 PSU
	68.6 W 233.92 BTU/hr	76.7 W 261.54 BTU/hr	74.94 W 255.55 BTU/hr	2 x 400 W AC or 2 x 400 W DC	2 PSUs

## RUCKUS ICX 7550 Switch Technical Specifications

### Power Consumption (Maximum Configuration)

Model Name (Input Power +/-5%)	@100 VAC Input	@200 VAC Input	@-48 VDC Input	Minimum Number of Power Supplies	Notes
ICX 7550-48F	81.3 W 277.23 BTU/hr	81.2 W 276.89 BTU/hr	84.0 W 286.44 BTU/hr	1 x 400 W AC or 1 x 400 W DC	1 PSU
	92.7 W 316.11 BTU/hr	93.6 W 319.18 BTU/hr	91.2 W 311 BTU/hr	2 x 400 W AC or 2 x 400 W DC	2 PSUs

## Power Consumption (Maximum Configuration)

All downlink ports, stacking ports, and slot 2x40 GbE are linked up with 100 percent traffic rate; 100 percent PoE load on PoE models; three fan FRUs at high speed.

Model Name (Input Power +/-5%)	@100 VAC Input	@200 VAC Input	@-48 VDC Input	Minimum Number of Power Supplies	Notes
ICX 7550-24	135 W 460.35 BTU/hr	134.2 W 457.62 BTU/hr	141.12 W 381.22 BTU/hr	1 x 400W AC or 1 x 400W DC	1 PSU
	146.9 W 500.93 BTU/hr	147.6 W 503.32 BTU/hr	154.56 W 527.05 BTU/hr	2 x 400W AC or 2 x 400W DC	2 PSUs
ICX 7550-48	142.7 W 486.61 BTU/hr	141.7 W 483.2 BTU/hr	148.32 W 505.77 BTU/hr	1 x 400W AC or 1 x 400W DC	1 PSU
	154.3 W 526.16 BTU/hr	154.7 W 527.53 BTU/hr	161.76 W 551.6 BTU/hr	2 x 400W AC or 2 x 400W DC	2 PSUs
ICX 7550-24P	1123.7 W 3831.82 BTU/hr	1248.2 W 4256.36 BTU/hr	N/A	1 x 1200 W AC	1 PSU
	1413 W 4818.33 BTU/hr	1357.5 W 4629.08 BTU/hr	N/A	2 x 1200 W AC	2 PSUs required for PoE loading
ICX 7550-48P	1131.6 W 3858.76 BTU/hr	1252.2 W 4270 BTU/hr	N/A	1 x 1200 W AC	1 PSU
	2134.5 W 7278.65 BTU/hr	2345.2 W 7997.13 BTU/hr	N/A	2 x 1200 W AC	2 PSUs required for PoE loading
ICX 7550-24ZP	1152 W 3928.32 BTU/hr	1290 W 4398.9 BTU/hr	N/A	1 x 1200 W AC	1 PSU
	2113 W 7205.33 BTU/hr	2353.1 W 8024.07 BTU/hr	N/A	2 x 1200 W AC	2 PSUs required for PoE loading
ICX 7550-48ZP	1183.7 W 4036.42 BTU /hr	1315.8 W 4486.88 BTU/hr	N/A	1 x 1200 W AC	1 PSU
	2159.8 W 7364.92 BTU/hr	2373.9 W 8095 BTU/hr	N/A	2 x 1200 W AC	2 PSUs required for PoE loading
ICX 7550-24F	142.7 W 486.6 BTU/hr	142 W 484.22 BTU/hr	147.96 W 504.55 BTU/hr	1 x 400W AC or 1 x 400W DC	1 PSU
	156 W 531.96 BTU/hr	156.4 W 533.32 BTU/hr	161.89 W 552.06 BTU/hr	2 x 400W AC or 2 x 400W DC	2 PSUs



Model Name (Input Power +/-5%)	@100 VAC Input	@200 VAC Input	@-48 VDC Input	Minimum Number of Power Supplies	Notes
ICX 7550-48F	166.8 W	166.0 W	168.07 W	1 x 400W AC or 1 x 400W DC	1 PSU
	568.78 BTU/hr	566.06 BTU/hr	573.12 BTU/hr		
ICX 7550-48P	178.6 W	177.7 W	181.52 W	2 x 400W AC or 2 x400W DC	2 PSUs
	609.03 BTU/hr	605.96 BTU/hr	618.98 BTU/hr		

## Power Consumption (Modules)

### NOTE

The module names were inherited from the ICX7650.

Name	Description	Power Consumption
ICX7650-4X10GF	4-port 1/10 GbE SFP+ expansion module	Typical = 12.96 W Maximum = 15.72 W
ICX7650-2X40GQ	2-port 40 GbE QSFP+ data uplink/stacking module	Typical = 5.64 W Maximum = 7.38 W
ICX7650-1X100GQ	1-port 100 GbE QSFP28 data uplink/stacking module	Typical = 5.64 W Maximum = 7.38 W
ICX-FAN12-E	Power-supply-side for exhaust airflow fan assembly	Typical = 4.68 W Maximum = 16.68 W
ICX-FAN12-I	Power-supply-side for intake airflow fan assembly	Typical = 4.68 W Maximum = 16.68 W

## Data Port Specifications (Ethernet)

### NOTE

The pluggable-module names listed below were inherited from the ICX7650.

Model	Port Type	Number of Ports (in Module)	Description
ICX 7550-24	40 GbE	2 (slot 2)	QSFP+ stacking ports, 40 Gbps, compatible with optical transceivers, or direct attached copper cable
	1 GbE	24 (slot 1)	10/100 Mbps/1 GbE RJ-45 ports
ICX 7550-48	40 GbE	2 (slot 2)	QSFP+ stacking ports, 40 Gbps, compatible with optical transceivers, or direct attached copper cable
	1 GbE	48 (slot 1)	10/100 Mbps/1 GbE RJ-45 ports
ICX 7550-24P	40 GbE	2 (slot 2)	QSFP+ stacking ports, 40 Gbps, compatible with optical transceivers, or direct attached copper cable
	1 GbE	24 (slot 1)	10/100 Mbps/1 GbE RJ-45 ports with up to 45W per port PoE support
ICX 7550-48P	40 GbE	2 (slot 2)	QSFP+ stacking ports, 40 Gbps, compatible with optical transceivers, or direct attached copper cable
	1 GbE	48 (slot 1)	10/100 Mbps/1 GbE RJ-45 ports with up to 45W per port PoE support

**RUCKUS ICX 7550 Switch Technical Specifications**  
 Serial Port Specifications (Pinout - USB Type-C)

Model	Port Type	Number of Ports (in Module)	Description
ICX 7550-24ZP	100 GbE	2 (slot 2)	QSFP28 stacking ports, 40/100 Gbps, compatible with optical transceivers, or direct attached copper cable
	10 GbE	12 (slot 1)	100 Mbps/1 GbE/2.5 GbE/10 GbE RJ-45 ports with up to 90W per port PoE support
	2.5 GbE	12 (slot 1)	100 Mbps/1 GbE/2.5 GbE RJ-45 ports with up to 90W per port PoE support
ICX 7550-48ZP	100 GbE	2 (slot 2)	QSFP28 stacking ports, 40/100 Gbps, compatible with optical transceivers, or direct attached copper cable
	10 GbE	12 (slot 1)	100 Mbps/1 GbE/2.5 GbE/10 GbE RJ-45 ports with up to 90W per port PoE support
	2.5 GbE	36 (slot 1)	100 Mbps/1 GbE/2.5 GbE RJ-45 ports with up to 90W per port PoE support
ICX 7550-24F	100 GbE	2 (slot 2)	QSFP28 stacking ports, 40/100 Gbps, compatible with optical transceivers, or direct attached copper cable
	10 GbE	24 (slot 1)	SFP+ ports, 1/10 Gbps, compatible with ER, LR, SR, ZR, or USR optical transceivers
ICX 7550-48F	100 GbE	2 (slot 2)	QSFP28 stacking ports, 40/100 Gbps, compatible with optical transceivers, or direct attached copper cable
	10 GbE	12 (slot 1)	SFP+ ports, 1/10 Gbps, compatible with ER, LR, SR, ZR, or USR optical transceivers
	1 GbE	36 (slot 1)	SFP ports, compatible with 100Base-FX IR or LR SMF, 100Base-FX MMF, 1000Base-BXD SMF, 1000Base-BXU SMF, 1000Base-LHA SFP SMF, 1000Base-LX SMF, 1000Base-SX MMF, 1000BASE-TX SFP Copper
ICX7650-1X100GQ	100 GbE	1 (slot 3)	Pluggable module with QSFP28 uplink port, compatible with optical transceivers, or direct attached copper cable. Only supported in ICX 7550-24ZP, ICX 7550-48ZP, ICX 7550-24F, and ICX 7550-48F
ICX7650-2X40GQ	40 GbE	2 (slot 3)	Pluggable module with QSFP+ uplink ports, compatible with optical transceivers, or direct attached copper cable
ICX7650-4X10GF	10 GbE	4 (slot 3)	Pluggable module with SFP+ uplink ports, compatible with ER, LR, LRM, SR, ZR. Or USR optical transceivers

## Serial Port Specifications (Pinout - USB Type-C)

Pin	Signal	Description
A1	USB-C_GND	Ground
A2	Reserved	Not used
A3	Reserved	Not used
A4	USB_TYPE_C_5V_IN	5 V bus power
A5	USB-C_CC1	Configuration channel
A6	USB-C_AD1+	Data A positive
A7	USB-C_AD1-	Data A negative
A8	Reserved	Not used
A9	USB_TYPE_C_5V_IN	5 V bus power
A10	Reserved	Not used
A11	Reserved	Not used
A12	USB-C_GND	Ground
B1	USB-C_GND	Ground

Pin	Signal	Description
B2	Reserved	Not used
B3	Reserved	Not used
B4	USB_TYPE_C_5V_IN	5 V bus power
B5	Reserved	Not used
B6	USB-C_BD2+	Data B positive
B7	USB-C_BD2-	Data B negative
B8	Reserved	Not used
B9	USB_TYPE_C_5V_IN	5 V bus power
B10	Reserved	Not used
B11	Reserved	Not used
B12	USB-C_GND	Ground

## Serial Port Specifications (Pinout RJ-45)

Pin	Signal	Description
1	Not supported	N/A
2	Not supported	N/A
3	UART1_TXD	Transmit data to ICX
4	GND	Logic ground
5	Not supported	N/A
6	UART1_RXD	Receive data from ICX
7	Not supported	N/A
8	Not supported	N/A

## Serial Port Specifications (Protocol)

Parameter	Value
Baud	9600 bps
Data bits	8
Parity	None
Stop bits	1
Flow control	None

## Memory Specifications

Memory	Type	Size
Main memory	DDR4 2400 on board DRAM	4 GB
Boot flash	SPI flash (dual boot)	16 MB
eUSB SSD flash	SLC NAND flash	4 GB

## Regulatory Compliance (EMC)

- FCC Title 47 CFR, Part 15, Subpart B, 2012 (for frequency above 1G) Class A
- ICES-003: 2016 Issue 6 (Canada) Class A
- VCCI V-3: 2013.04 /V-4: 2012.04 (Japan) Class A
- EN 55032: 2010+AC: 2017 Class A
- AS/NZS CISPR 32(Australia/New Zealand) Class A
- EN 55032: 2010+AC: 2017 Class A
- EN 61000-3-3: 2013
- EN 55024: 2010 + A1:2015
- EN 300 386 (V2.1.1)
- BSMI CNS 13438:95 (2006)
- TCVN 7189: 2009

## Regulatory Compliance (Safety)

- CAN/CSA-C22.2 NO. 60950-1-07, end Edition. Am 1 (2011) +Am 2 (2014)
- UL 60950-1 (2nd Edition), am 1 (2011) +Am 2 (2014)
- IEC 60950-1 (2nd Edition) Am 1:2009 +Am 2 2013
- EN 60950-1:2006 + A11:2009 + A1:2010 + A12: 2011 +Am 2 2013
- EN 60825-1:2007 2014 (2017-6-19 replace 2007 version)
- EN 60825-2:2004+A1 A2
- BSMI CNS14336-1:99 (2010)
- UL 62368-1, 2nd Edition
- CAN/CSA C22.2 No. 62368-1-14
- IEC 62368-1:2014 (Second Edition)
- EN 62368-1:2014+A11:2017

## Regulatory Compliance (Environmental)

- 2014/35/EU and 2014/30/EU
- 2011/65/EU – Restriction of the use of certain hazardous substance in electrical and electronic equipment (EU RoHS)
- 2012/19/EU - Waste electrical and electronic equipment (EU WEEE)
- 94/62/EC - packaging and packaging waste (EU)
- 2006/66/EC - batteries and accumulators and waste batteries and accumulators (EU battery directive)
- 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (EU REACH)
- Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010 - U.S. Conflict Minerals
- 30/2011/TT-BCT - Vietnam circular
- SJ/T 11363-2006 Requirements for Concentration Limits for Certain Hazardous Substances in EIPs (China)
- SJ/T 11364-2006 Marking for the Control of Pollution Caused by EIPs (China)

- CNS 15663 (BSMI) (Taiwan)

