

O-LEADING

O-Leading is a professional PCB manufacturer and PCBA assembler. We provide a full range of PCB and PCBA services, including design, manufacturing, and assembly. Our services are tailored to meet the needs of our customers, from small-scale prototyping to large-scale production.

We have a state-of-the-art manufacturing facility with advanced equipment and a highly skilled workforce. This ensures that we can deliver high-quality products on time and within budget.

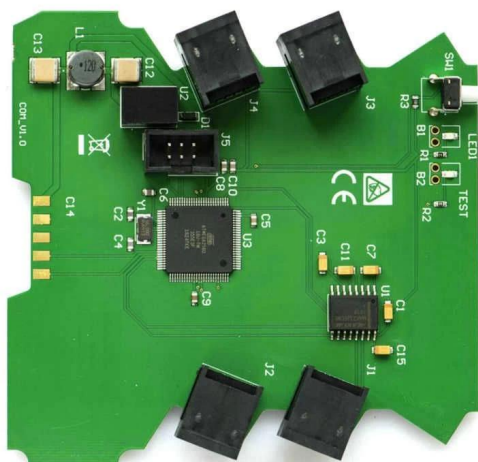
Our O-LEADING PCB and PCBA services are available for a wide range of applications, including consumer electronics, industrial automation, and medical devices. We are committed to providing excellent customer service and support throughout the entire process.

For more information about our PCB and PCBA services, please contact us at info@o-leading.com or call us at +86 755 2600 0000.

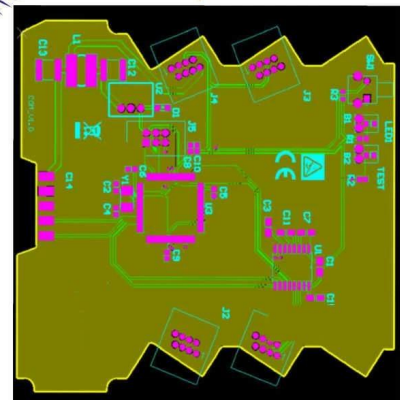
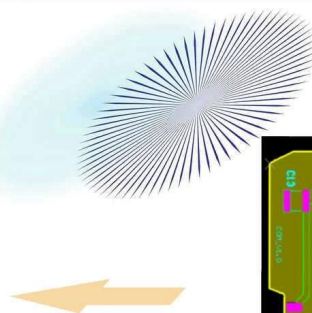
BOM

Manufacturer	Manufacturer Part Number	Designator (required)	Qty (required)	Description (required)	Case
Panasonic	ERJ-3GEYJ331V	R2	1	Thick Film Resistors 0603 330ohms 5% AEC-Q200	0603
Panasonic	ERJ-6GEYJ103V	R3	1	Thick Film Resistors 0805 10Kohms 5% AEC-Q200	0805
Vishay	CRCW06031K00FKEAC	R1	1	Thick Film Resistors - SMD 1/10Watt 1Kohms 1% Commercial Use	0603
ON Semiconductor	SZMMSZ4690T3G	D1	1	5.6 V Low Current Zener Diode Voltage Regulator	SOD-123-2
TDK	CGA9N3X7S2A106K230KB	C12,C13	2	10µF ±10% 100V Ceramic Capacitor X7S 2220 (5750 Metric)	2220
KEMET	T491A105K016AT7280	C1, C3, C7, C11, C15	5	1µF Molded Tantalum Capacitors 16V 1206 (3216 Metric) 100Ohm	1206
KEMET	C0805J104K5RACAUTO	C5, C8, C9, C10	4	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50volts 0.1uF 10% X7R AUTO	0805
KEMET	C0805C220J4GACTU	C2,C4,C6	3	Multilayer Ceramic Capacitors MLCC - SMD/SMT 16V 22pF COG 0805 0.05	0805

O-LEADING



PCBA



PCB

**Recom Switching
Regulator,
8 42V Input,
5V Output, 1A**

**Jack Modular Connector 8p8c
(RJ45, Ethernet) 90° Angle
(Right) Unshielded**

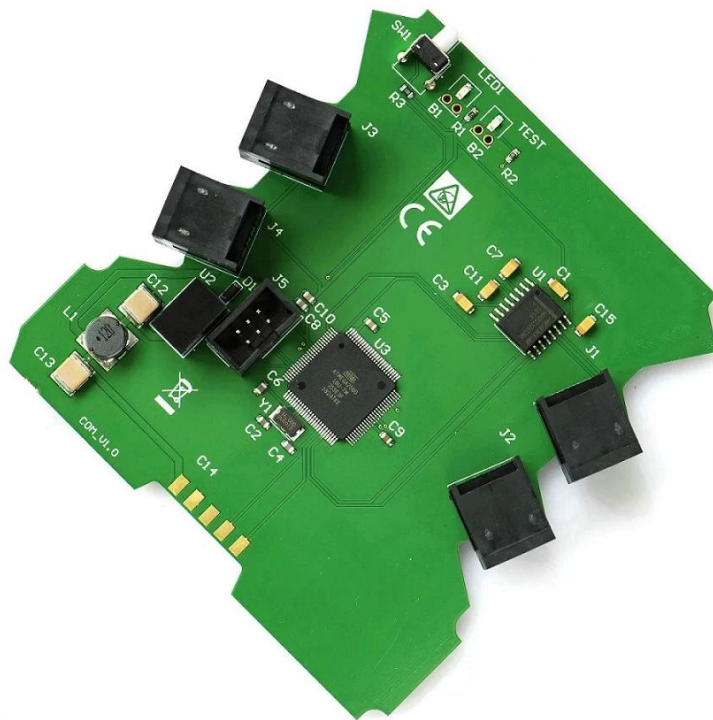
O-LEADING
To Be Reliable, To Be Valuable

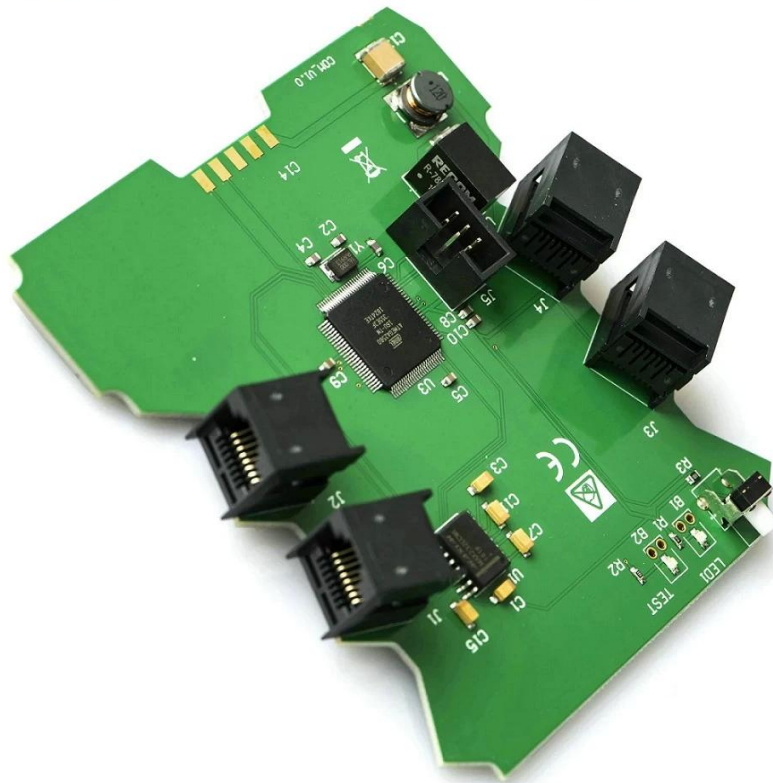
**Atmega
2560-16AU**

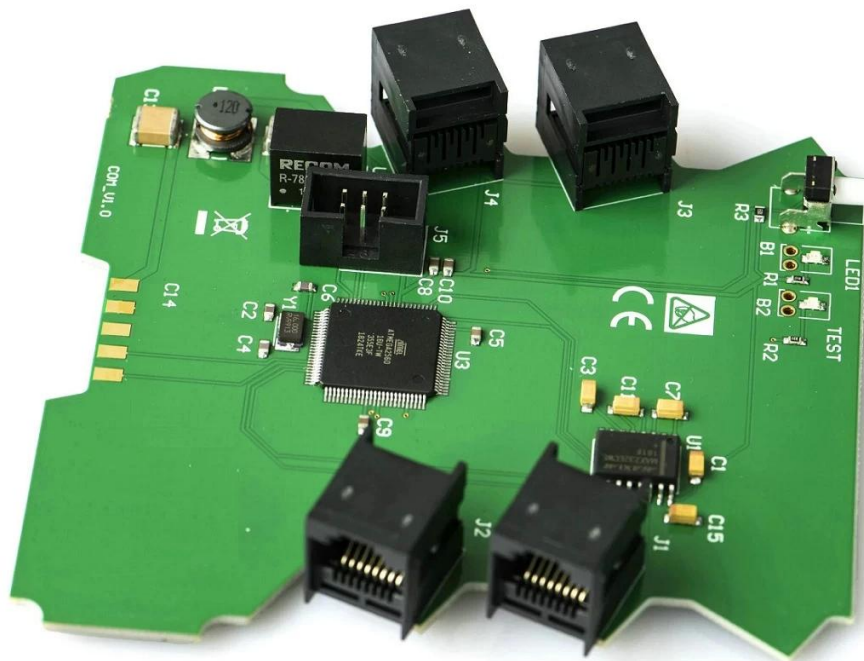
**IC TRANSCEIVER
FULL 2/2 16SOIC**

**Jack Modular Connector 8p8c
(RJ45, Ethernet) 90° Angle
(Right) Unshielded**









www.o-leading.com





PCB

Factory PCB



Automatic vacuum press machine



Drilling Machine



Pattern Plating Machine



Scrubbing Machine



Developing Machine



Routing Machine



High-speed flying probe machine



E-test Machine

Factory SMT







No. SZXEC1900530401

Date: 30 Mar 2019

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O-LEADING SUPPLY CHAIN (HK) CO., LIMITED

1313, FLOOR 13, FORTUNE BUILDING, DANSHUI TOWN, HUIYANG DISTRICT, HUIZHOU, GUANGDONG,
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : OSP

SGS Job No. : RP19-005089 - SZ

Date of Sample Received : 22 Mar 2019

Testing Period : 22 Mar 2019 - 30 Mar 2019

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PDBEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina Fan
Approved Signatory



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No. SZXEC1900530401

Date: 30 Mar 2019

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Test Results :

Test Part Description:

Specimen No.	SGS Sample ID	Description
SN1	SZX19-005304.001	Green™PCB

Remarks :

(1) $1 \text{ mg/kg} = 1 \text{ ppm} = 0.0001\%$

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	Q27
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	8
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tri bromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tri bromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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ZPMV2.E490354 - WIRING, PRINTED - COMPONENT

Wiring, Printed - Component

See General Information for Wiring, Printed - Component

O-LEADING SUPPLY CHAIN (HK) CO LTD

E490354

ROOM 1205, 12/F
TAI SANG BANK BLDG
130-132 DES VOEUS ROAD
CENTRAL, HONG KONG

Type	Cond Width		Cond Thk mic(mil)	SS/ DS/ DSO	Max		Max		Meets UL796 Class	C T DSR	C I
	Min	Min			Area	Solder	Oper	Flame			
	mm(in)	mm(in)			Diam	Limits	Temp	Temp			
Multilayer (mass laminate) printed wiring boards.											
O-LEADING-401	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	12.7 (0.5)	260	10	130	V-0	-	-
O-LEADING-407	0.08 (0.003)	0.2 (0.008)	17 (0.67)	DS	9.7 (0.4)	260	10	130	V-0	All	-
Multilayer printed wiring boards.											
O-LEADING-408	0.125 (0.005)	0.125 (0.005)	12 (0.47) Int:136	DS	50.8 (2.0)	280	20	130	V-0	All	*
Single layer printed wiring boards.											
O-LEADING-002	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	105	V-0	All	-
O-LEADING-003	0.38 (0.015)	1.14 (0.045)	34 (1.34)	SS	19.1 (0.8)	260	10	130	V-0	▲	-
O-LEADING-033	0.15 (0.006)	0.3 (0.012)	34 (1.34)	SS	25.4 (1.0)	260	10	120	V-0	All	-
O-LEADING-205	0.1 (0.004)	0.3 (0.012)	34 (1.34)	DS	69.6 (2.7)	260	10	130	V-0	All	-
O-LEADING-206	0.15 (0.006)	0.33 (0.013)	17 (0.67)	DS	69.6 (2.7)	260	10	130	V-0	All	-
O-LEADING-D01	0.14 (0.006)	0.15 (0.006)	33 (1.30)	DS	25.4 (1.0)	260	10	130	V-0	All	*
O-LEADING-S01	0.25 (0.010)	0.25 (0.010)	17 (0.67)	SS	25.4 (1.0)	260	4	130	V-0	All	*

WIRING, PRINTED - COMPONENT | UL Product iQ

O-LEADING-S02	0.2 (0.008)	0.2 (0.008)	17 (0.67)	SS	25.4 (1.0)	260	4	130	HB	▲	*
O-LEADING-S03	0.25 (0.010)	0.25 (0.010)	34 (1.34)	SS	25.4 (1.0)	260	4	130	V-0	All	*

* - CTI marking is optional and may be marked on the printed wiring board.

Marking: Company name or file number and type designation. May be followed by a suffix to denote factory identification or burning test classification.

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PCB SMT

PCB		SMT	
PCB	1~32	PCB	FR-4 CEM-1 CEM-3
PCB	1 / 3oz-12oz		
PCB/PCB	3.0mil / 3.0mil	PCB	510x460mm
PCB/PCB	4.0mil / 4.0mil	PCB	50x50mm
PCB	10	PCB	0.5mm-4.5mm
PCB	0.2mm-5.0mm	PCB	0.5-4mm
PCB	635 * 1500mm	PCB	0201
PCB	4mil	PCB	0603
Plated Hole Tolerance	+/- 3mil	PCB	15mm
Blind / Buried Vias	PCB	PCB	0.3mm
Via Fill	PCB	PCB BGA	0.4mm
PCB	FR-4 FR-4high Tg	PCB	+/- 0.03mm
PCB	HASL OSP ENIG HAL-LF		

Shipping service



Quick Turn Lead Time		
Layer Count:	Lead Tim	Special Requirement
1L/2L	2-3days	24 Hours,48 Hours
4L	3-4days	48 Hours
6L	4-5days	72 Hours
8L	5-6days	NA
10L	6-7days	NA
12L	7-8days	NA
14L	8-9days	NA

Standard Lead Time		
Layer Count:	Sample Lead Time	Volume order lead time
2L	4 days	10 days
4L	5 days	11 days
6L	6 days	12 days
8L	8 days	14 days
10L	10 days	16 days
12L	12 days	18 days
14L	14 days	20 days
16-32L	18 days	24 days



1. O

ISO 9001:2008

1.1

1.2

1.3

1.4

1.5

2. O

10

O

Win-Win

3. O-Leading

FR4 TG

4. PCB

4.1 BOM

4.2 PCB Gerber

4.3 PCB PCBA

4.4

4.5

5. PCB

→ → AOI → → PTH → → → → AOI → → → E / T →

6. HDI

VCP LDI Screen LDI

7. O

O- ENIG OSP LF-HASL / HDI OSP ENIG OSP + ENIG BGAPAD 0.3 mm OSP OSP + ENIG

8. FPC O-Leading SMT

O-Leading FPC 8 2000mm * 240mm SMT

9. PCB

; ; ; ; PCB ; ;

10. PCB PWB FPC

PCB Printed Circuit Board PWB Printed Wire Board FPC Flexible Printed Board

11. PCB

PCB Tg CTE PCB 50 250°C PCB ; PCB

12. O Igid-flex PCB

O-leading PCB FPC PCB

13.

SI6000 POLAR INSTRUMENTS CITS 500s

