

IRD-SW-N3654FP | Switch L3 Gerenciável com 48 Portas PoE+ Gigabit e 6 SFP+ 10G

- 48 portas Gigabit Ethernet RJ45 com suporte PoE+ (IEEE 802.3af/at)
- 6 slots SFP+ 10G para uplink de alta velocidade
- Capacidade de comutação de 216 Gbps e taxa de encaminhamento de 160.704 Mpps
- Buffer de memória de 32 MB e suporte a tabela MAC de até 32K endereços
- Suporte a roteamento L3 dinâmico: RIP, OSPF, ISIS, estático e IPv6
- VLANs: 802.1Q, MAC, Protocolo, Privada, Voz, QinQ, GVRP, VPN
- QoS com 8 filas de prioridade por porta, WRR, SP, Equ, SP+WRR
- Recursos avançados de segurança: IP/MAC/VLAN/Port binding, DHCP Snooping, DoS, ARP, Port Security
- Multicast completo: IGMP v1/v2/v3, MLD, VLAN Multicast, filtros e Fast Leave
- Gestão via Web, CLI (SSH/Telnet), SNMP v1/v2/v3, com criptografia SSL/HTTPS
- Diagnósticos: teste de cabo, ping, traceroute, logs e monitoramento de CPU/memória
- Chassi metálico com ventilação ativa e fonte de alta capacidade para maior estabilidade
- Orçamento de PoE: 500W
- Montagem em rack 19" ou mesa


Gerenciável
48xGE
L3
6 x 1/10 SFP+
PoE+

Introdução

O IRD-SW-N3654FP é um switch Layer 3 gerenciável com uplink de 10G, ideal para redes corporativas, institucionais e ambientes de alta demanda, como hotéis, campi universitários e parques industriais. Com 48 portas 10/100/1000 Mbps PoE+ e 6 slots SFP+ de 10Gbps, oferece alta densidade de portas com suporte a alimentação via PoE, aliado a avançados recursos de gerenciamento e roteamento L3.

Este equipamento combina performance de alto nível, segurança robusta, ampla capacidade de VLANs e gerenciamento eficiente. Possui funcionalidades como roteamento dinâmico, autenticação 802.1X, proteção contra ataques DoS e suporte completo a IPv6, sendo uma solução completa para redes modernas e escaláveis.

Especificações Técnicas

Hardware

- Portas: 48 x 10/100/1000 Mbps RJ45 (PoE+)
- Uplink: 6 x 10G SFP+ slots
- Porta Console: 1 x RS232 (115200, N, 8, 1)
- Capacidade de comutação: 216 Gbps
- Taxa de encaminhamento: 160.704 Mpps
- Tabela de endereços MAC: 32K
- Buffer de pacotes: 32 MB
- Jumbo Frame: Suporte a até 10K Bytes
- LEDs: SYS (verde), LINK (amarelo), SFP (verde), PoE (verde)
- Alimentação: 100–240V AC, 50/60 Hz
- Potência PoE máxima por porta: 30W (com priorização e agendamento)
- Temperatura de operação: 0°C a 40°C
- Temperatura de armazenamento: -40°C a 70°C
- Umidade de operação: 10% a 90% (sem condensação)
- Umidade de armazenamento: 5% a 95%

Padrões IEEE Suportados

- IEEE 802.3, 802.3u, 802.3ab, 802.3z, 802.1d, 802.1w, 802.1s, 802.1Q, 802.1p, 802.3x, 802.3af, 802.3at

Recursos de Software

Roteamento L3

- Protocolos: RIP, RIPng, OSPF, OSPFv3, ISIS, ISISv6
- Suporte a roteamento estático e ARP Proxy

VLAN

- 802.1Q, VLAN MAC, VLAN Privada, VLAN por Protocolo, VLAN de Voz
- QinQ, VPN VLAN, GVRP (registro dinâmico), VLAN por GARP

Gerenciamento de Endereços

- Visualização, filtro e gerenciamento de endereços MAC
- Suporte a MAC estáticos e dinâmicos
- IVL (Independent VLAN Learning)

Spanning Tree

- STP (802.1d), RSTP (802.1w), MSTP (802.1s)
- Segurança de Spanning Tree

Multicast

- IGMP v1/v2/v3, IGMP Snooping
- MLD Snooping, VLAN Multicast, Fast Leave, filtros, descarte e roteamento

IRD.Net – Inovação em Redes Digitais

QoS

- 8 filas por porta
- Priorização por porta, 802.1p, DSCP/ToS
- Modos de agendamento: Equ, SP, WRR, SP+WRR

Segurança e Controle de Acesso

- Autenticação 802.1X
- Binding quádruplo: IP, MAC, VLAN, Porta
- Proteção ARP (spoofing, flooding)
- Proteção DoS (Land, SYNFIN, Xmascan, Ping Flood)
- Segurança de porta (limitação de MAC)
- DHCP Snooping

Gerenciamento e Diagnóstico

- Interface: Web (HTTPS), CLI (Console, Telnet, SSH), SNMP v1/v2/v3
- Logs, Syslog, RMON
- Detecção de cabo, ping, traceroute
- Monitoramento de CPU, memória e tráfego por porta
- LLDP para descoberta de topologia

Gerenciamento de Energia PoE

- Orçamento de PoE: 500W
- Controle por porta (on/off)
- Definição de prioridade e potência máxima
- Agendamento por tempo
- Controle de consumo total do sistema

Montagem

- Suporte a rack 19" (padrão para switches de 48 portas)

Room 303, Building 1, No.316, Renzhou Road,
Shatian Town, Dongguan City, Guangdong Province
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CERTIFICATE OF CONFORMITY

No: JAT25041202137EC-1

Applicant : IRD Produtos de Informática Ltda
Address : RUA MARIA LOPES BORBA, 474 NAVEGANTES-SC 88370340
BRAZIL
Manufacturer : IRD Produtos de Informática Ltda
Address : RUA MARIA LOPES BORBA, 474 NAVEGANTES-SC 88370340
BRAZIL
EUT : Unmanaged/Managed Ethernet Switches
Trade Mark : IRD.Net
M/N : See model list

The submitted sample of the above equipment has been tested and found to comply with the following European Directive:

Electromagnetic Compatibility Directive 2014/30/EU

The standard(s) used for showing compliance with the essential requirements:

Applicable Standard(s)	Test Report(s) Number
EN 55032:2015+A11:2020 EN 55035:2017+A11:2020 EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A2:2021+AC:2022-01	JAT25041202137ER-1

This certificate is part of the full test report(s) and should be read in conjunction with it. This certificate is based on an evaluation of one sample of above mentioned product. It does not imply assessment of the production of the product. Without the written approval of Dongguan Jun'an Testing & Certification Co., Ltd., this certificate is not permitted to be reproduced, except in full. It is not permitted to use the test lab's logo. The CE marking may only be used if all the relevant and effective European Directive are applicable.

CE



(Manager)
April 13, 2025

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IRD-SW-05E-PL, IRD-SW-08E-PL, IRD-SW-16E-PL, IRD-SW-24E-PL, IRD-SW-05G-PL,
IRD-SW-08G-PL, IRD-SW-16GN-PL, IRD-SW-24GN-PL, IRD-SW-24G-PL, IRD-SW-05E-MT,
IRD-SW-08E-MT, IRD-SW-16E-MT, IRD-SW-05GN, IRD-SW-08G-MT, IRD-SW-16GN,
IRD-SW-24GN, IRD-SW-N1226F, IRD-SW-N1248GN, IRD-SW-N25GS1109FP,
IRD-SWN-05GNM-PL, IRD-SW-08GNM-PL, IRD-SW-05GNM, IRD-SW-08GNM,
IRD-SW-16GNM, IRD-SW-24GNM, IRD-SW-N2210FP, IRD-SW-N2218FP, IRD-SW-N2218F,
IRD-SW-N2226FP, IRD-SW-N2226F, IRD-SW-N2428FCP, IRD-SW-N2428FC, IRD-SW-N3210FP,
IRD-SW-N3210F, IRD-SW-N3218FP, IRD-SW-N3218F, IRD-SW-N3226FP, IRD-SW-N3226F,
IRD-SW-N3428FCP, IRD-SW-N3428FC, IRD-SW-N3808FP, IRD-SW-N25GS3008F,
IRD-SW-N25GS3008FP, IRD-SW-N3412FP, IRD-SW-N3412F, IRD-SW-N3428F,
IRD-SW-N3428FP, IRD-SW-N3654F, IRD-SW-N3654FP, IRD-SW-N32028FCP,
IRD-SWI-IGS2206FP, IRD-SWI-IGS2206F, IRD-SWI-IGS2208P, IRD-SWI-IGS2208,
IRD-SWI-IGS2210FP, IRD-SWI-IGS2210F, IRD-SWI-IGS2412FP, IRD-SWI-IGS2412F,
IRD-SWI-IGS2816FP, IRD-SWI-IGS2816F, IRD-SWI-IGS3206FP, IRD-SWI-IGS3206F,
IRD-SWI-IGS3210FP, IRD-SWI-IGS3210F, IRD-SWI-IGS3412FP, IRD-SWI-IGS3412F,
IRD-SWI-IGS3816FP, IRD-SWI-IGS3816F, IRD-SWI-POE105E, IRD-SWI-POE108E,
IRD-SWI-POE104E1SC, IRD-SWI-POE105G, IRD-SWI-POE108G, IRD-SWI-POE101G01SC,
IRD-SWI-POE101G01SFP, IRD-SWI-POE104G1SC, IRD-SWI-POE104G1SFP, IRD-SWI-105E,
IRD-SWI-108E, IRD-SWI-104E1SC, IRD-SWI-105G, IRD-SWI-108G, IRD-SWI-101G01SC,
IRD-SWI-101G01SFP, IRD-SWI-104G1SC, IRD-SWI-104G1SFP, IRD-SW-HPSE4E2E,
IRD-SW-HPSE8E2E, IRD-SW-HPSE8E2G, IRD-SW-HPSE8E2G1S, IRD-SW-HPSE4G2G1S,
IRD-SW-HPSE16G2G1S, IRD-SW-AP4E2E, IRD-SW-AP8E2G, IRD-SW-AHP8G2G2S,
IRD-SW-AP16E2G1S, IRD-SW-APG16G2G1S, IRD-SW-APSE8E2G1S, IRD-SW-APSE8G2G2S,
IRD-SW-APSE16E2G1S, IRD-SW-APSE24E2G2S

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SDoC's Compliance Information Statement

No: JAT25041202137FC-1

Applicant : IRD Produtos de Informática Ltda
Address : RUA MARIA LOPES BORBA, 474 NAVEGANTES-SC 88370340
BRAZIL
Manufacturer : IRD Produtos de Informática Ltda
Address : RUA MARIA LOPES BORBA, 474 NAVEGANTES-SC 88370340
BRAZIL
EUT : Unmanaged/Managed Ethernet Switches
Trade Mark : IRD.Net
M/N : See model list

The submitted sample of the above equipment has been tested and found to comply with the following requirement of 47 CFR of PART 15.

The assessment of compliance of the product with the requirements relating to FCC rules was based on the following standards and procedure:

Applicable Standard(s)	Test Report(s) Number
FCC Part 15, Subpart B:2017 ANSI C63.4:2014	JAT25041202137FR-1

This verification is part of the full test report(s) and should be read in conjunction with it. This verification is based on an evaluation of one sample of above mentioned product. It does not imply assessment of the production of the product. Without the written approval of Dongguan Jun'an Testing & Certification Co., Ltd., this verification is not permitted to be reproduced, except in full. It is not permitted to use the test lab's logo.



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IRD-SW-N3428FP, IRD-SW-N3654F, IRD-SW-N3654FP, IRD-SW-N32028FCP,
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IRD-SWI-101G01SFP, IRD-SWI-104G1SC, IRD-SWI-104G1SFP, IRD-SW-HPSE4E2E,
IRD-SW-HPSE8E2E, IRD-SW-HPSE8E2G, IRD-SW-HPSE8E2G1S, IRD-SW-HPSE4G2G1S,
IRD-SW-HPSE16G2G1S, IRD-SW-AP4E2E, IRD-SW-AP8E2G, IRD-SW-AHP8G2G2S,
IRD-SW-AP16E2G1S, IRD-SW-APG16G2G1S, IRD-SW-APSE8E2G1S, IRD-SW-APSE8G2G2S,
IRD-SW-APSE16E2G1S, IRD-SW-APSE24E2G2S

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Manufacturer : IRD Produtos de Informática Ltda
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BRAZIL
EUT : Unmanaged/Managed Ethernet Switches
Trade Mark : IRD.Net
M/N : See model list

The submitted sample of the above equipment has been tested and found to comply with the following European Directive:

RoHS Directive 2011/65/EU & (EU) 2015/863 & (EU) 2017/2102

The standard(s) used for showing compliance with the essential requirements:

Applicable Standard(s)	Test Report(s) Number
IEC 62321-1:2013, IEC 62321-2:2013 IEC 62321-3-1:2013, IEC 62321-3-2:2020 IEC 62321-4:2013, IEC 62321-5:2013 IEC 62321-6:2015, IEC 62321-7-1: 2015 IEC 62321-7-2:2017, IEC 62321-8:2017	JAT25041202137RR-1

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RoHS



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IRD-SW-08E-MT, IRD-SW-16E-MT, IRD-SW-05GN, IRD-SW-08G-MT, IRD-SW-16GN,
IRD-SW-24GN, IRD-SW-N1226F, IRD-SW-N1248GN, IRD-SW-N25GS1109FP,
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IRD-SW-N25GS3008FP, IRD-SW-N3412FP, IRD-SW-N3412F, IRD-SW-N3428F,
IRD-SW-N3428FP, IRD-SW-N3654F, IRD-SW-N3654FP, IRD-SW-N32028FCP,
IRD-SWI-IGS2206FP, IRD-SWI-IGS2206F, IRD-SWI-IGS2208P, IRD-SWI-IGS2208,
IRD-SWI-IGS2210FP, IRD-SWI-IGS2210F, IRD-SWI-IGS2412FP, IRD-SWI-IGS2412F,
IRD-SWI-IGS2816FP, IRD-SWI-IGS2816F, IRD-SWI-IGS3206FP, IRD-SWI-IGS3206F,
IRD-SWI-IGS3210FP, IRD-SWI-IGS3210F, IRD-SWI-IGS3412FP, IRD-SWI-IGS3412F,
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IRD-SWI-101G01SFP, IRD-SWI-104G1SC, IRD-SWI-104G1SFP, IRD-SW-HPSE4E2E,
IRD-SW-HPSE8E2E, IRD-SW-HPSE8E2G, IRD-SW-HPSE8E2G1S, IRD-SW-HPSE4G2G1S,
IRD-SW-HPSE16G2G1S, IRD-SW-AP4E2E, IRD-SW-AP8E2G, IRD-SW-AHP8G2G2S,
IRD-SW-AP16E2G1S, IRD-SW-APG16G2G1S, IRD-SW-APSE8E2G1S, IRD-SW-APSE8G2G2S,
IRD-SW-APSE16E2G1S, IRD-SW-APSE24E2G2S

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EUT : Unmanaged/Managed Ethernet Switches
Trade Mark : IRD.Net
M/N : See model list

The submitted sample of the above equipment has been tested and found to comply with the following European Directive:

Low Voltage Directive 2014/35/EU

The standard(s) used for showing compliance with the essential requirements:

Applicable Standard(s)	Test Report(s) Number
EN IEC 62368-1:2020+A11:2020	JAT25041202137SR-1

This certificate is part of the full test report(s) and should be read in conjunction with it. This certificate is based on an evaluation of one sample of above mentioned product. It does not imply assessment of the production of the product. Without the written approval of Dongguan Jun'an Testing & Certification Co., Ltd., this certificate is not permitted to be reproduced, except in full. It is not permitted to use the test lab's logo. The CE marking may only be used if all the relevant and effective European Directive are applicable.



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IRD-SW-08E-MT, IRD-SW-16E-MT, IRD-SW-05GN, IRD-SW-08G-MT, IRD-SW-16GN,
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IRD-SWN-05GNM-PL, IRD-SW-08GNM-PL, IRD-SW-05GNM, IRD-SW-08GNM,
IRD-SW-16GNM, IRD-SW-24GNM, IRD-SW-N2210FP, IRD-SW-N2218FP, IRD-SW-N2218F,
IRD-SW-N2226FP, IRD-SW-N2226F, IRD-SW-N2428FCP, IRD-SW-N2428FC, IRD-SW-N3210FP,
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IRD-SW-N3428FP, IRD-SW-N3654F, IRD-SW-N3654FP, IRD-SW-N32028FCP,
IRD-SWI-IGS2206FP, IRD-SWI-IGS2206F, IRD-SWI-IGS2208P, IRD-SWI-IGS2208,
IRD-SWI-IGS2210FP, IRD-SWI-IGS2210F, IRD-SWI-IGS2412FP, IRD-SWI-IGS2412F,
IRD-SWI-IGS2816FP, IRD-SWI-IGS2816F, IRD-SWI-IGS3206FP, IRD-SWI-IGS3206F,
IRD-SWI-IGS3210FP, IRD-SWI-IGS3210F, IRD-SWI-IGS3412FP, IRD-SWI-IGS3412F,
IRD-SWI-IGS3816FP, IRD-SWI-IGS3816F, IRD-SWI-POE105E, IRD-SWI-POE108E,
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IRD-SWI-POE101G01SFP, IRD-SWI-POE104G1SC, IRD-SWI-POE104G1SFP, IRD-SWI-105E,
IRD-SWI-108E, IRD-SWI-104E1SC, IRD-SWI-105G, IRD-SWI-108G, IRD-SWI-101G01SC,
IRD-SWI-101G01SFP, IRD-SWI-104G1SC, IRD-SWI-104G1SFP, IRD-SW-HPSE4E2E,
IRD-SW-HPSE8E2E, IRD-SW-HPSE8E2G, IRD-SW-HPSE8E2G1S, IRD-SW-HPSE4G2G1S,
IRD-SW-HPSE16G2G1S, IRD-SW-AP4E2E, IRD-SW-AP8E2G, IRD-SW-AHP8G2G2S,
IRD-SW-AP16E2G1S, IRD-SW-APG16G2G1S, IRD-SW-APSE8E2G1S, IRD-SW-APSE8G2G2S,
IRD-SW-APSE16E2G1S, IRD-SW-APSE24E2G2S