



Product Highlights

Flexibility

Support for Duplex Chain/Ring topology for up to 12 physically stacked units as well as virtual stacking managed via a single IP provides flexibility and convenience

Comprehensive Security Solutions

Innovative Safeguard Engine, ACL, and ARP Spoofing Prevention protect your network from malicious attacks and unauthorised access

Green Solution

A suite of D-Link Green Technology features help save energy automatically and reduce costs, without sacrificing performance



DGS-3420 Series

xStack L2+ Managed Gigabit Switches

Features

Flexible Choices

- 20/48 10/100/1000BASE-T ports or 20 SFP slots
- 4 Combo 10/100/1000BASE-T/SFP ports¹
- 4 10-Gigabit SFP+ uplink ports
- 802.3af and 802.3at Power Over Ethernet support²
- Optional External Redundant Power Supply

High Bandwidth Physical/Virtual Stacking

- Physical stack of up to 12 units, 576 Gigabit ports
- Stackable through 2 10-Gigabit SFP+ ports
- Up to 40 Gbps Full-Duplex Stacking Bandwidth
- Virtual Stack of up to 32 units using single IP
 Management

L3 Features

- IPv4/v6 Static Routing
- RIP/RIPng

Quality of Service

- 802.1p Priority Queues/Multi-Layer CoS
- Time-based QoS

Reliability

- Loopback Detection (LBD)
- Ethernet Ring Protection Switching (ERPS)
- Security
- L2/L3/L4 Multi-Layer Access Control
- D-Link Safeguard Engine
- Supports Microsoft Nap

OAM

- 802.3ah Ethernet Link OAM
- 802.1ag, ITU-T Y.1731 Service OAM
- ¹ For DGS-3420-28TC/28SC/28PC models ² For DGS-3420-28PC/52P models

The xStack DGS-3420 series of next generation Layer 2+ Gigabit switches delivers performance, flexibility, security, multi-layer QoS, and accessibility, along with redundant power solutions for SMBs and enterprises. With high Gigabit port densities, Gigabit SFP, 10-Gigabit SFP+ support, and advanced software solutions, these switches can act as either departmental access layer devices or aggregation switches to form a multilevel network structured with backbone and centralised high-speed servers.

Service providers can take advantage of the high SFP density switches (DGS-3420-28SC) to structure the aggregation of Fiber to the Building (FTTB) networks that are extended to the subscribers' sites.

Unparalleled Flexibility

Easily deployed and simple to manage, the DGS-3420 can be stacked with any switch that supports D-Link's Single IP Management to form a multi-level network structured with backbone and centralised high-speed servers. The virtual stack can include units located anywhere on the same network domain, and uses optional 10-Gigabit uplinks to move intrastack traffic at 20 Gbps full duplex speeds.

Redundant Ring Stacking

Alternatively, depending on whether linear or fault-tolerant ring stacking is implemented, users can use one or two 10-Gigabit SFP+ ports to create a physical stack. 12 units or 576 Gigabit ports can be configured for a stack using direct attach cables to provide high bandwidth on the DGS-3420 Series with cost efficiency.



Security, Performance & Availability

The DGS-3420 Series provides a complete set of security features including L2/L3/L4 multi-layer Access Control Lists and 802.1X user authentication via TACACS+ and RADIUS servers.

The DGS-3420 Series offers extensive VLAN support including GVRP and 802.1Q VLAN to enhance security and performance. A robust set of L2/L3/L4 QoS/CoS solutions help ensure that critical network services such as VoIP, ERP, Intranet, and video conferencing are served with proper priority. The series also provides D-Link's Safeguard Engine to increase the switch's reliability, serviceability, and availability to prevent malicious flooding traffic caused by worms or virus infections. Bandwidth Control can be flexibly set for each port using pre-defined thresholds to assure a committed level of service for endusers. For advanced applications, flow-based bandwidth control allows easy fine-tuning of service types based on specific IP addresses or protocols.

IPv6 Technology

The DGS-3420 Series also features comprehensive IPv6 support, including IPv6 Tunnel, ICMPv6, DHCPv6, RIPng, IPv4/IPv6 dual stack, and more. With 10-Gigabit connectivity and IPv6 support, the series enables you to future-proof your network for cost efficiency and longevity while meeting the requirements that future IPv6-capable network devices require.

D-Link Green Technology

D-Link is striving to take the lead in developing innovative and power-saving technology that does not sacrifice operational performance or functionality. The DGS-3420 Series implements D-Link Green technology, which includes power saving through link status, smart fan design, increased heat dissipation, and cable length detection. The power-saving feature automatically powers down ports that have no link or link partner. The Smart Fan design allows the built-in fans to automatically turn on only at a certain temperature, providing continuous, reliable, and eco-friendly operation of the switch.



If the worst should happen to your network you need the very best support and fast. Downtime costs your business money. D-Link Assist maximises your uptime by solving technical problems quickly and effectively. Our highly trained technicians are on standby around the clock, ensuring that award-winning support is only a phone call away.

With a choice of three affordable service offerings covering all D-Link business products, you can select the package that suits you best:

D-Link Assist Gold - for comprehensive 24-hour support

D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

D-Link Assist Silver - for prompt same-day assistance

D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist Bronze - for guaranteed response on the next business day

D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switching, wireless, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed. D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly.





xStack DGS-3420 Series in Service Provider Networks

xStack DGS-3420 Series in Large Enterprise Networks



SMB Network Deployment





Technical Spe	ecifications	DGS-3420-28TC	DGS-3420-28PC	DGS-3420-28SC
General	Interfaces	20 10/100/1000BASE-T ports 4 Combo 10/100/1000BASE-T/SFP ports 4 SFP+ ports	20 10/100/1000BASE-T PoE ports 4 Combo 10/100/1000BASE-T PoE/SFP ports 4 SFP+ ports	20 SFP ports 4 Combo 10/100/1000BASE-T/SFP port 4 SFP+ ports
	Optional Redundant Power Supply	DPS-500	DPS-700	DPS-500
	Console Port	RJ-45		
	Management Port	10/100BASE-T		
	Alarm Port	1		
	SD Card Slot	1		
Performance	Switch Fabric	128 Gbps	128 Gbps	128 Gbps
	Packet Forwarding Rate	95.24 Mpps	95.24 Mpps	95.24 Mpps
	Packet Buffer	2 MB		
	MAC Address Table	16K Entries		
	IP v4 Routing Table	1K Entries		
	IP v6 Routing Table	512 Entries		
	IP v4 Forwarding Table	2K Entries		
	IP v6 Forwarding Table	1K Entries		
	Jumbo Frame Size	13000 bytes		
PoE	PoE Standard	- -	802.3af and 802.3at	-
	PoE Power Budget	-	370 watts (740 watts with DPS-700 RPS)	-
Physical	MTBF (Hours)	287763 hours	230906 hours	300371 hours
	Acoustics	Max: 46.5 dB	Max: 52.8 dB	Max: 46.3 dB
	Heat Dissipation	173.2 BTU/hr	1630.0 BTU/hr	205.3 BTU/hr
	Power Input	100 to 240 V AC, 50/60Hz	100 to 240 V AC, 50/60Hz	100 to 240 V AC, 50/60Hz
	Max Power Consumption	50.8 watts	478.0 watts	60.3 watts
	Dimensions (W x D x H)	441 x 310 x 44 mm	441 x 380 x 44 mm	441 x 310 x 44 mm
	Weight	4.12 kg	5.75 kg	4.06 kg
	Ventilation	via Temperature Controlled Smart Fan (> 39 °C: High Speed; < 36 °C: Low Speed) ³		
	Operating Temperature	0 to 50 °C		
	Storage Temperature	-40 to 70 °C		
	Operating Humidity	10% to 90% RH		
	Storage Humidity	5% to 90% RH		
	Emission (EMI)	FCC Class A, CE Class A, VCCI Class A, IC, C-Tick		
	Safety	CB, cUL, LVD		
	Certification	IPv6 Ready Logo Phase 2		



Fechnical Spe		DGS-3420-52T	DGS-3420-52P	
General	Interfaces	48 10/100/1000BASE-T ports 4 SFP+ ports	48 10/100/1000BASE-T PoE ports 4 SFP+ ports	
	Optional Redundant Power Supply	DPS-500	DPS-700	
	Console Port	RJ-45		
	Management Port	10/100BASE-T		
	Alarm Port	1		
	SD Card Slot	1		
Performance	Switch Fabric	176 Gbps	176 Gbps	
	Packet Forwarding Rate	130.95 Mpps	130.95 Mpps	
	Packet Buffer	21	ИВ	
	MAC Address Table	16K E	ntries	
	IPv4 Routing Table	1K Entries		
	IPv6 Routing Table	512 Entries		
	IPv4 Forwarding Table	2K Entries		
	IPv6 Forwarding Table	1K Entries		
	Jumbo Frame Size	13000 bytes		
PoE	PoE Standard	-	802.3af and 802.3at	
	PoE Power Budget	-	370 watts (740 watts with DPS-700 RPS)	
Physical	MTBF (Hours)	255608 hours	202462 hours	
	Acoustics	Max: 51.1 dB	Max: 55.4 dB	
	Heat Dissipation	276.2 BTU/hr	1723.4 BTU/hr	
	Power Input	100 to 240 V AC, 50/60Hz	100 to 240 V AC, 50/60Hz	
	Max Power Consumption	81.0 watts	505.4 watts	
	Dimensions (W x D x H)	441 x 380 x 44 mm	441 x 380 x 44 mm	
	Weight	5.07 kg	6.24 kg	
	Ventilation	via Temperature Controlled Smart Fan (> 39 °C: High Speed; < 36 °C: Low Speed) ³		
	Operating Temperature	0-50 °C		
	Storage Temperature	-40 to 70 °C		
	Operating Humidity	10% to 90% RH		
	Storage Humidity	5% to 90% RH		
	Emission (EMI)	FCC Class A, CE Class A, VCCI Class A, IC, C-Tick		
	Safety	CB, cUL, LVD		
	Certification	IPv6 Ready Logo Phase 2		

³ By default, the fan speed is low. When the temperature inside the chassis is over 39 °C, the fan switches to high speed and remains high until the temperature is down to 36 °C.



LLDP/LLDP-MED

DHCP Relay

DHCP Server

Flash File System

Multiple Images

CPU Monitoring

DHCPv6 Client

DHCPv6 Relay

DHCPv6 Server

Trusted Host

MTU Setting

UDP helper

(DULD)

OAM

Microsoft[®] NLB Support

802.3ah Ethernet Link OAM

802.3ah D-Link Extension: D-Link

Unidirectional Link Detection

SNTP

ICMPv6

Debug Command

BootP/DHCP Client

DHCP Auto-Configuration

DHCP Relay Option 60; 61

DHCP Relay Option 82

Multiple Configurations

Stackability

- Virtual Stacking Support
- D-Link Single IP Management
- Up to 32 devices per virtual stack
- Up to 20G stacking bandwidth
 Physical Stacking⁵
- Supports Duplex Chain/Ring topology
- Up to 40G stacking bandwidth
- Up to 12 units per stack

L2 Features

- MAC Address Table: 16K
- Flow Control
- 802.3x Flow Control
- HOL Blocking Prevention
- Jumbo Frames up to 13,000 bytes
- IGMP snooping
- IGMP v1/v2/v3 Snooping
- Supports 960 groups
- Port/Host-based
- IGMP Snooping Fast Leave
- MLD Snooping
- MLD v1/v2 Snooping
- Supports 480 groups
- Host-based MLD Snooping Fast Leave
- Spanning Tree
- 802.1D-2004 STP
- 802.1w RSTP - 802.1O-2005 MSTP
- BPDU filtering
- Root Restriction
- Loopback Detection
- 802.3ad Link Aggregation
- Max. 32 groups per device
- 8 Gigabit ports or 2 10-Gigabit ports per group
- Port Mirroring
- Supports 4 Mirroring Groups
- Supports One-to-One, Manyto-One, Flow-based, and RSPAN mirroring
- L2 Protocol Tunneling
- ERPS (Ethernet Ring Protection Switching)

VLAN

- VLAN Group
- Max. 4K Static VLAN Groups
 Max. 255 Dynamic VLAN Groups
- 802.1Q Tagged VLAN
- 802.1v Protocol VLAN
- GVRP
- Double VLAN (Q-in-Q)
 Port-based Q-in-Q
- MAC-based VLAN
- VLAN Trunking

L3 Features

- 256 IP interfaces
- Loopback interface
- IPv6 Tunneling
- Proxy ARP
- Gratuitous ARP
- VRRP⁴
 ⁴ Supported by R1.5 Firmware
 ⁵ Stacking cable not included

Software Features ACL Statistics

Time-based ACL

Security

SSH v2

Control

Traffic Segmentation

IP-MAC-Port Binding

- ARP Packet Inspection

- DHCPv6 and NDP Snooping

- Supports up to 500 Address

Binding Entries per device

D-Link Safeguard Engine

DHCP Server Screening

CPU Interface Filtering

ARP Spoofing Prevention

BPDU Attack Protection

NetBIOS/NetBEVI Filtering

- Port-based Access Control

- Host-based Access Control

- Dynamic VLAN Assignment

- Port-based Access Control

- Host-based Access Control

- Dynamic VLAN Assignment

- Port-based Access Control

- Host-based Access Control

- Dynamic VLAN Assignment

- Host-based Access Control

- Supports 802.1X NAP

- Supports DHCP NAP

RADIUS and TACACS+

4-Level user account

Japan Web-based Access Control

authentication for switch access

Command Line Interface (CLI)

- Supports 1,2,3,9 Groups

- Supports ProbeConfig Group

MAC-based Access Control (MAC)

Web-based Access Control (WAC)

Secure FTP⁴

AAA

■ 802 1X

(JWAC)

Microsoft[®] NAP

Guest VLAN

Management

Web-based GUI

Telnet Server

Telnet Client

SNMP v1/v2c/v3

TFTP Client

ZModem

SNMP Trap

System Log

RMON v1

RMON v2

sFlow

- IP Packet Inspection

- DHCP Snooping

SSL v1/v2/v3

Port Security for up to 3328 MAC

addresses for port/system/VLAN

Broadcast/Multicast/Unicast Storm

- L3 Routing IK routing entries shared by IPv4/v6
- Max. 1K IPv4 routes
- Max. 512 IPv6 routes
- 2K L3 forwarding entries shared by IPv4/v6
- Max. 2K IPv4 entries - Max. 1K IPv6 entries
- 256 static routing entries for IPv4,
- 128 entries for IPv6
- RIP v1/v2
- RIPng
- Policy-based Routing
- Route Redistribution

QoS (Quality of Service)

- 802.1p Class of Service (CoS)
- 8 queues per port
 Queue Handling
- Strict
- Weighted Round Robin (WRR)
- Strict + WRR
- CoS based on - Switch Port
- VI AN
- 802.1p Priority Queues
- MAC Address
- IPv4/v6 Address
- DSCP
- Protocol Type
- IPv6 Traffic Class
- IPv6 Flow Label
- TCP/UDP Port
- User-defined Packet Content
- Supports following actions for flows:
- Remark 802.1p Priority Tag
- Remark TOS/DSCP Tag
- Bandwidth Control
- Flow StatisticsCommitted Information Rate (CIR),
- min. granularity 1 Kbps.
- Bandwidth Control
- Port-based (Ingress/Egress, min. granularity 8 Kbps)
- Flow-based (Ingress, min. granularity 8 Kbps)
- Time-based QoS
- Congestion Control WRED⁴

ACL (Access Control List)

- Ingress ACL: support up to 6 profiles and 256 rules per profile
 Egress ACL: support up to 4 profiles and 128 rules per profile
- = ACL based on
- 802.1p Priority
- VLAN ID - MAC Address

- Ether Type

- DSCP

- IPv4/v6 Address

- IPv6 Traffic Class

- IPv6 Flow Label

- TCP/UDP Port Number

- User-defined Packet Content

- Protocol Type

Optional Management Software		
DV-600S	D-View 6.0 Network Management	
	Software Standard Edition	
DV-600P	D-View 6.0 Network Management	
	Software Professional Edition	
Optional 10 Gbps SFP+ Transceivers		
DEM-431XT	10 GBASE-SR SFP+ Transceiver	
	(w/o DDM), 80 m: OM1 & OM2	
	MMF, 300 m: OM3 MMF	
DEM-431XT-DD	10GBASE-SR SFP+ Transceiver	
	(with DDM), 80 m: OM1 & OM2	
	MMF, 300 m: OM3 MMF	
DEM-432XT	10GBASE-LR SFP+ Transceiver	
	(w/o DDM), 10 km	
DEM-432XT-DD	10GBASE-LR SFP+ Transceiver	
	(with DDM), 10 km	
DEM-433XT	10GBASE-ER SFP+ Transceiver	
	(w/o DDM), 40 km	

DEM-310GTSFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 10 km, 3.3 V operating voltageDEM-311GTSFP transceiver, 1000BASE-SX standard, multi-mode fiber, max. distance 550 m, 3.3 V operating voltageDEM-312GT2SFP transceiver 1000BASE-SX standard, multi-mode fiber, max. distance 2 km, 3.3 V operating voltageDEM-314GTSFP transceiver, 1000BASE-LHX standard, single-mode fiber, max. distance 50 km, 3.3 V operating voltageDEM-314GTSFP transceiver, 1000BASE-LHX standard, single-mode fiber, max. distance 50 km, 3.3 V operating voltageDEM-315GTSFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 80 km, 3.3 V operating voltageDEM-331TWDM SFP transceiver, 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1550 nm, Rx wavelength 1310 nmDEM-331RWDM SFP transceiver 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1310 nm, Rx wavelength 1310 nm, <th>Optional 1 G</th> <th>- ops SFP Transceivers</th>	Optional 1 G	- ops SFP Transceivers
max. distance 10 km, 3.3 V operating voltage DEM-311GT SFP transceiver, 1000BASE-SX standard, multi-mode fiber, max. distance 550 m, 3.3 V operating voltage DEM-312GT2 SFP transceiver 1000BASE-SX standard, multi-mode fiber, max. distance 2 km, 3.3 V operating voltage DEM-314GT SFP transceiver, 1000BASE-LHX standard, single-mode fiber, max. distance 50 km, 3.3 V operating voltage DEM-315GT SFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 50 km, 3.3 V operating voltage DEM-315GT SFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 80 km, 3.3 V operating voltage DEM-331T WDM SFP transceiver, 1000BASE-LX standard, single-mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1550 nm, Rx wavelength 1550 nm, Rx wavelength 1310 nm DEM-331R WDM SFP transceiver 1000BASE-LX standard, single-mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1310 nm, Rx wavelength 1550 nm DEM-211 SFP transceiver, 100BASE-FX multi-mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1550 nm DEM-211 SFP transceiver, 100BASE-FX multi-mode fiber, max. distance 2 km, 3.3 V operating voltage SFP transceiver, 100BASE-FX single-mode fiber, max. distance		
3.3 V operating voltage DEM-311GT SFP transceiver, 1000BASE-SX standard, multi-mode fiber, max. distance 550 m, 3.3 V operating voltage DEM-312GT2 SFP transceiver 1000BASE-SX standard, multi-mode fiber, max. distance 2 km, 3.3 V operating voltage DEM-314GT SFP transceiver, 1000BASE-LHX standard, single-mode fiber, max. distance 50 km, 3.3 V operating voltage DEM-315GT SFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 80 km, 3.3 V operating voltage DEM-315GT SFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 80 km, 3.3 V operating voltage DEM-331T WDM SFP transceiver, 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1550 nm, Rx wavelength 1310 nm DEM-331R WDM SFP transceiver 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1310 nm, Rx wavelength 1310 nm,		standard, single-mode fiber,
DEM-311GT SFP transceiver, 1000BASE-SX standard, multi-mode fiber, max. distance 550 m, 3.3 V operating voltage DEM-312GT2 SFP transceiver 1000BASE-SX standard, multi-mode fiber, max. distance 2 km, 3.3 V operating voltage DEM-314GT SFP transceiver, 1000BASE-LHX standard, single-mode fiber, max. distance 50 km, 3.3 V operating voltage DEM-315GT SFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 80 km, 3.3 V operating voltage DEM-315GT SFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 80 km, 3.3 V operating voltage DEM-331T WDM SFP transceiver, 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1550 nm, Rx wavelength 1310 nm DEM-331R WDM SFP transceiver 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1310 nm, Rx wavelength 1550 nm DEM-211 SFP transceiver, 100BASE-FX multi-mode fiber, max. distance DEM-211 SFP transceiver, 100BASE-FX single-mode fiber, max. distance		max. distance 10 km,
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standard, multi-mode fiber, max. distance 2 km, 3.3 V operating voltage DEM-314GT SFP transceiver, 1000BASE-LHX standard, single-mode fiber, max. distance 50 km, 3.3 V operating voltage DEM-315GT SFP transceiver, 1000BASE-ZX standard, single-mode fiber, max. distance 80 km, 3.3 V operating voltage DEM-331T WDM SFP transceiver, 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1550 nm, Rx wavelength 1310 nm DEM-331R WDM SFP transceiver 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1310 nm DEM-331R WDM SFP transceiver 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1310 nm DEM-331R WDM SFP transceiver 1000BASE-LX standard, single- mode fiber, max. distance 40 km, 3.3 V operating voltage, Tx wavelength 1310 nm, Rx wavelength 1310 nm, Rx wavelength 1310 nm, SFP transceiver, 100BASE-FX multi-mode fiber, max. distance 2 km, 3.3 V operating voltage DEM-210 SFP transceiver, 100BASE-FX single-mode fiber, max. distance		3.3 V operating voltage
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single-mode fiber, max. distance	-	
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15 km, 3.3 V operating voltage		
		15 km, 3.3 V operating voltage

Optional Products

Optional 10 Gbps SFP+ Direct Attach

Cables		
DEM-CB100S	10-GbE SFP+ 1 m Direct Attach	
	Cable	
DEM-CB300S	10-GbE SFP+ 3 m Direct Attach	
	Cable	

Optional Redundant Power Supplies

DPS-500	140-watt redundant power supply
DPS-700 5	589-watt redundant power supply





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