

D-Link Corporation External Specification

DWL-2600AP

802.11n Single-band Unified Access Point

Version 1.1

Date: 2012/2/13



DWL-2600AP Specification Revision History

Version	Revised Date	Author	Content Revised
1.0	2012/2/13	Fatman Chen	Initial Release
1.1	2012/3/9	Fatman Chen	Update physical data



1.0 Scope

1.1 Document

DWL-2600AP is an 802.11n single band Unified AP. The design uses Broadcom BRCM 5358.

In enterprise headquarters, branch offices, or campus networks, the D-link DWL-2600AP is an outstanding choice for secure, reliable radio-based connections on 2.4 GHz band. The DWL-2600AP can offer up to 300Mbps data rates (based on 802.11n specification) to wireless clients access to bandwidth-intensive applications such as video streaming, voice or data.

Equipped with a Gigabit Ethernet (10/100Mbps) port with PoE support, DWL-2600AP not only delivers line-rate throughput for 802.11n WLAN technology but also allows to easily implement the access point in location where doesn't have directly power supply.

DWL-2600AP can act either a standalone AP or a thin AP centrally managed by D-Link Unified Switch (DWS-4026/ DWS-3160) or Wireless Controller (DWC-1000). DWL-2600AP supports industry-standard wireless security protocols including 802.11i, WPA, WPA2, and 802.1X to meet the most stringent enterprise and government encryption requirement.

1.2 Product Features

- Provide Ethernet to Wireless LAN bridge fully IEEE 802.3 compatible on the Ethernet side and fully interoperable with IEEE 802.11b/g/n compliant equipment.
- Compatible with IEEE 802.11b high rate standard to provide wireless 11Mbps data rate.
- Compatible with IEEE 802.11g higher speed standard to provide wireless 54Mbps data rate.
- Compatible with IEEE 802.11n higher speed standard to provide wireless 300Mbps data rate.
- Operation at 2.4~2.5GHz to meet worldwide regulations.
- Dynamic data rate scaling at 1, 2, 5.5, and 11Mbps for IEEE802.11b.
- Dynamic data rate scaling at 6, 9, 12, 18, 24, 36, 48, 54Mbps for IEEE802.11g.
- Dynamic data rate scaling at MCS0~15 for IEEE802.11n
- Allows auto fallback data rate for reliability, optimized throughput and transmission range.
- Supports IEEE 802.11 b/g/n wireless data encryption with 64/128-bit WEP for security.
- Supports enhanced security WPA2-Personal & WPA2-Enterprise,
- Supports one 10/100 Fast Ethernet port with PoE (802.3af).
- Supports one RJ-45 console port
- Up to 16 Virtual APs (VAP) per radio.
- (Standalone Mode only) Supports AP Clustering, enabling APs to form a cluster for simple management and configuration.
- Supports WDS in both of standalone and managed mode (AP acts as a Wireless Bridge to connect two networks.)
- (Standalone Mode only) Can be managed via Web GUI, CLI or SNMP.

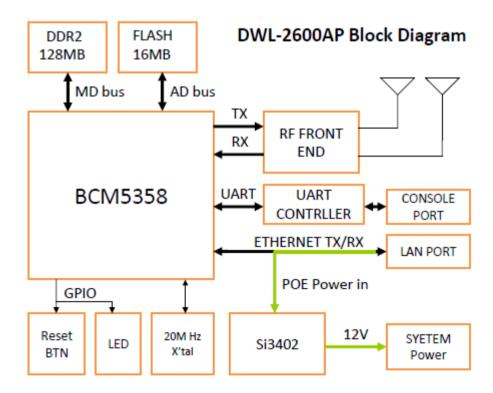


2.0 Requirements

The following sections identify the detailed requirements of the DWL-2600AP.

Model Description	11b/g/n Unified AP
Chipset	BRCM 5358
RF Chipset	2x2 MIMO
Flash/SDRAM	16MB NOR Flash/128MB DDR2
Ethernet	1 LAN 10/100 Mbps
Power	12 VDC/ 1 A
Antenna	2.4GHz PIFA antenna
Housing	Plastic housing
PoE	802.3af
Max output power	TBD
at antenna port	

2.1 Functional Block Diagram



2.2 General Requirement

• 2.2.1 IEEE 802.11b Section

#	Feature	Detailed Description
2.2.1.1	Standard	• IEEE 802.11b
2.2.1.2	Radio and	DQPSK, DBPSK, DSSS, and CCK

D-Link® CORPORATION

#	Feature	Detailed Description	
	Modulation		
	Schemes		
2.2.1.3	Operating	 2400 ~ 2483.5MHz ISM band 	
	Frequency		
2.2.1.4	Channel	• 11 channels for United States	
	Numbers	13 channels for Europe Countries	
2.2.1.5	Data Rate	• 11, 5.5, 2, and 1Mbps	
2.2.1.6	Media Access	CSMA/CA with ACK	
	Protocol		
2.2.1.7	Transmitter	Typical RF Output Power at each RF chain, Data Rate and	
	Output Power at	at room Temp. 25degree C	
	Antenna	TBD dBm at 1Mbps	
	Connector	TBD dBm at 2Mbps	
		TBD dBm at 5.5Mbps	
		TBD dBm at 11Mbps	
		Note: The maximum power setting will vary according to	
		individual country regulations.	
2.2.1.8	Receiver	Typical Sensitivity at Which Frame (1000-byte PDUs) Error	
	Sensitivity at	Rate = 8% and at room Temp. 25degree C	
	Antenna	TBD dBm at 1Mbps	
	Connector	TBD dBm at 2Mbps	
		TBD dBm at 5.5Mbps	
		TBD dBm at 11Mbps	

• 2.2.2 IEEE 802.11g Section

#	Feature	Detailed Description
2.2.2.1	Standard	• IEEE 802.11g
2.2.2.2	Radio and	BPSK, QPSK, 16QAM, 64QAM with OFDM
	Modulation Type	
2.2.2.3	Operating	• 2400 ~ 2483.5MHz ISM band
	Frequency	
2.2.2.4	Channel	11 channels for United States
	Numbers	13 channels for Europe Countries
		13 channels for Japan
2.2.2.5	Data Rate	• 6,9,12,18,24,36,48,54Mbps
2.2.2.6	Media Access	CSMA/CA with ACK
	Protocol	
2.2.2.7	Transmitter	Typical RF Output Power at each RF chain, Data Rate and
	Output Power at	at room Temp. 25degree C
	Antenna	TBD dBm at 6Mbp
	Connector	TBD dBm at 9Mbp
		TBD dBm at 12Mbp
		TBD dBm at 18Mbp

D-Link® CORPORATION

#	Feature	Detailed Description
		TBD dBm at 24Mbp
		TBD dBm at 36Mbp
		TBD dBm at 48Mbp
		TBD dBm at 54Mbps
		Note: The maximum power setting will vary according to
		individual country regulations.
2.2.2.8	Receiver	Typical Sensitivity at Which Frame (1000-byte PDUs)
	Sensitivity at	Error Rate = 10% and at room Temp. 25degree C
	Antenna	TBD dBm at 6Mbps
	Connector	TBD dBm at 9Mbps
		TBD dBm at 12Mbps
		TBD dBm at 18Mbps
		TBD dBm at 24Mbps
		TBD dBm at 36Mbps
		TBD dBm at 48Mbps
		TBD dBm at 54Mbps

• 2.2.3 IEEE 802.11 n Section

#	Feature	Detailed Description				
2.2.3.1	Standard	• IEEE 802.11n				
2.2.3.2	Radio and Modulation Type	BPSK, QPSK, 16QAM, 64QAM with OFDM				
2.2.3.3	Operating Frequency	• 2.4GHz Band: 2400 ~ 2483.5MHz				
2.2.3.4	Data Rate	MCS	GI=800ns		GI=400ns	
			20MHz	40MHz	20MHz	40MHz
		0	6.5	13.5	7.2	15.0
		1	13.0	27.0	14.4	30.0
		2	19.5	40.5	21.7	45.0
		3	26.0	54.0	28.9	60.0
		4	39.0	81.0	43.3	90.0
		5	52.0	108.0	57.8	120.0
		6	58.5	121.5	65.0	135.0
		7	65.0	135.0	72.2	150.0
		8	13.0	27.0	14.4	30.0
		9	26.0	54.0	28.9	60.0
		10	39.0	81.0	43.3	90.0
		11	52.0	108.0	57.8	120.0
		12	78.0	162.0	86.7	180.0
		13	104.0	216.0	115.6	240.0
		14	117.0	243.0	130.0	270.0
		15	130.0	270.0	144.4	300.0



#	Feature	Detailed Description		
2.2.3.5	Media Access	CSMA/CA with ACK		
	Protocol			
2.2.3.6	Maximum	Typical RF Output Power at each RF chain, Data Rate and		
	Transmitter	at room Temp. 25degree C		
	Output Power at	■ 2.4GHz Band/HT-20 ■ 2.4GHz Band/HT-40		
	Antenna	TBD dBm at MCS0/8 TBD dBm at MCS0/8		
	Connector	TBD dBm at MCS1/9 TBD dBm at MCS1/9		
		TBD dBm at MCS2/10 TBD dBm at MCS2/10		
		TBD dBm at MCS3/11 TBD dBm at MCS3/11		
		TBD dBm at MCS4/12 TBD dBm at MCS4/12		
		TBD dBm at MCS5/13 TBD dBm at MCS5/13		
		TBD dBm at MCS6/14 TBD dBm at MCS6/14		
		TBD dBm at MCS7/15 TBD dBm at MCS7/15		
		Note: The maximum power setting will vary according to		
		individual country regulations.		
2.2.3.7	Receiver	Typical Sensitivity at Which Frame (1000-byte PDUs)		
	Sensitivity at	Error Rate = 10% and at room Temp. 25degree C		
	Antenna	■ 2.4GHz Band/HT-20 ■ 2.4GHz Band/HT-40		
	Connector	TBD dBm at MCS0/8 TBD dBm at MCS0/8		
		TBD dBm at MCS1/9 TBD dBm at MCS1/9		
		TBD dBm at MCS2/10 TBD dBm at MCS2/10		
		TBD dBm at MCS3/11 TBD dBm at MCS3/11		
		TBD dBm at MCS4/12 TBD dBm at MCS4/12		
		TBD dBm at MCS5/13 TBD dBm at MCS5/13		
		TBD dBm at MCS6/14 TBD dBm at MCS6/14		
		TBD dBm at MCS7/15 TBD dBm at MCS7/15		

• 2.2.4 General Section

#	Feature	Detailed Description
2.2.4.1	Interface	1 RJ-45 10/100 Fast Ethernet port with PoE
		1 RJ-45 External Console port
		Power jack (12V/1A)
		Factory reset button
		Power button (Only for adapter, it won't affect the power
		from PoE)
2.2.4.2	Antenna Type	2.4GHz PIFA antenna
2.2.4.3	Ethernet Standard	• IEEE 802.3, IEEE 802.3u, IEEE 802.3x
2.2.4.4	Adapter Voltage	• 12V/1A AC
2.2.4.5	Current	TBD
	Consumption	
2.2.4.6	LEDs	Power LED – Dual color (red/green)
		Flash Red during booting up or malfunction
		Static Green while it's ready/working
		Solid Red while boot up fail



LAN LED
Static Green while Ethernet cable is plugged
Flash Green while traffic is passing through.
Off: Link down/unplugged
WLAN LED
Ready for working: Flashing in Green in" Normal Speed"
Radio on: Flashing in Green in "Normal Speed"
Receiving packets: Flash in Green in "High Speed"
Radio off: LED off

2.3 Software Requirements

This section only lists features when the AP is operating under standalone mode. For AP feature sets under managed mode, please refer to the DWS-4026 Unified Switch External Specification.

• 2.3.1 Network Setting

#	Feature	Detailed Description
2.3.1.1	DHCP Client	Supports DHCP for dynamically obtaining network
		configuration in Managed Mode
2.3.1.2	Multiple Virtual	Supports 16 VAPs.
	Access Points (VAP)	For each VAP, you can configure a unique SSID name, a
		default VLAN ID, a security mode, external RADIUS server
		information.
2.3.1.2	Wireless Client	Allows up to 200 wireless clients connected
2.3.1.3	IP Configuration	Manually configurable IP
2.3.1.4	VLAN	Supports 802.1Q VLAN Tagging
		Maximum of 64 Dynamic VLANs

• 2.3.2 Wireless Setting

#	Feature	Detailed Description
2.3.2.1	Single Band	Supports 2.4 GHz
2.3.2.2	Power Adjustment	Manually configurable transmit power level %
2.3.2.3	Auto channel	Automatic channel selection at startup
	Selection	
2.3.2.4	QoS	Supports 802.1p Quality of Service (QoS) for enhanced
		throughput and better performance of time-sensitive
		traffic like VoIP and streaming
		• DSCP
2.3.2.5	WMM	Supports Wi-Fi Multimedia (WMM) for QoS
		Supports WMM - Power Save (same as U-APSD)
2.3.2.6	Load Balancing	Configure client access based on AP utilization level
2.3.2.7	Rogue AP Detection	Neighbor AP detection (Rogue AP) using continuous
		channel scanning
2.3.2.8	802.11d Country	Supports 802.11d Regulatory Domain selection (country)
	Code	codes for global operation)



2.3.2.9	802.11e U-APSD	 Unscheduled Automatic Power Save Delivery 			
2.3.2.1	802.11h Spectrum	Supports 802.11h, incorporating Dynamic Frequency			
0	and Transmit Power	selection (DFS) and Transmit Power Control (TPC)			
	Management				
2.3.2.1	SVP	 Supports SpectraLink Voice Priority (SVP) for QoS on Wi-Fi 			
1		deployment. SVP complies with 802.11 and increases			
		network performance			
2.3.2.1	Wireless Distribution	WDS allows APs to communicate with each other wirelessly			
2	System (WDS) –	to form an Extended Service Set (ESS)			
	Wireless Bridge	Used to allow access to a distribution system without the			
		need to run cables			
		Maximum of 4 WDS links can be configured per AP			
2.3.2.1	802.1d Spanning	Supports STP to prevent loops when using WDS links as			
3	Tree Protocol (STP)	redundant links to a distribution system			
		STP Mode is configurable globally and disabled by default			

2.3.3 Security Setting

#	Feature	Detailed Description			
2.3.3.1	Prevent SSID	SSID Broadcast Enable/Disable option to prevent wireless			
	Broadcast	clients from detecting AP			
2.3.3.2	Weak IV avoidance	Weak Initialization Vector (IV) avoidance			
2.3.3.3	WEP	Supports Static WEP 64/128 bits data encryption			
2.3.3.4	WEP - IEEE 802.1X	Supports WEP 64/128-bit data encryption			
	(Dynamic WEP)				
2.3.3.5	WPA	Supports WPA Personal / Enterprise			
		PSK and TKIP			
2.3.3.6	802.11i / WPA2	Supports WPA2 Personal / Enterprise			
		PSK, TKIP and AES			
		Pre-authentication for WPA2 Enterprise			
		Key caching for WPA2 Enterprise			
2.3.3.7	EAP Types	• EAP-MD5, EAP-TLS, EAP-TTLS, EAP-FAST, EAP-SIM,			
		PEAP-GTC, PEAP-TLS, PEAP-MS-CHAPv2, EAP-Fast and			
		EAP-AKA.			
2.3.3.8	RADIUS	Supports authentication with RADIUS			
	(RFC 2865, 3580)	Can configure up to 4 external RADIUS servers for failover			
2.3.3.9	MAC filtering	 Configure a list of MAC addresses to permit/deny access 			
		Local or RADIUS database			
2.3.3.1	Station Isolation	Wireless Clients associated with the same VAP cannot			
0		detect each other			
2.3.3.1	WAPI	N/A			
1					

• 2.3.4 Management

#	Feature	Detailed Description			
2.3.4.1	Operating Mode	Standalone Mode – Manually configure settings			
		• Managed Mode – centrally managed by Wireless Switch			



2.3.4.2	AP Clustering	 APs form a dynamic, configuration-aware group (cluster) with other APs in a network in the same subnet Single IP management and AP configuration Up to 8 DWL-2600APs can form a cluster
2.3.4.3	Management Interface Web GUI	Managed through Web browser (HTTP/HTTPS)
2.3.4.4	Management Interface CLI	 Managed using Command Line Interface (CLI) with Telnet or SSHv2
2.3.4.5	Remote Upgrade	Firmware upgradeable using TFTPFirmware upgradeable using HTTP
2.3.4.6	System Status	Displays Device system status like f/w version, device MAC address, Up time, etc.
2.3.4.7	Administrator	Set Administrator username / password
2.3.4.8	AP Statistics	Displays throughput, transmitted frame count, received frame count, dropped frame count, total errors
2.3.4.9	Reset Button	 Reboot: press for less than 2 seconds Reset to Factory default: hold for longer than 5 secs
2.3.4.1	Reset Options	Reset to Factory default using CLI
0		Reset to Factory default using Web GUI
2.3.4.1	Reboot	Reboot the AP using CLI
1		Reboot the AP using Web GUI
2.3.4.1	Backup / Restore	Backup and restore of AP configuration using HTTP or TFTP
2.3.4.1	Syslog (RFC 3164)	System Logs
2.3.4.1	NTP	Supports Network Time Protocol for clock sync
2.3.4.1	Link Integrity	Continually verifies connection to the client, regardless of
5	Monitoring	network traffic activity levels
2.3.4.1 6	802.1X Supplicant	Authenticates the AP under 802.1X environment
2.3.4.1 7	SNMP	Supports SNMP v1/v2c/v3
2.3.4.1	Radio & VAP	Enable or disable of the VAPs and Radios based on
8	Scheduler	configured time intervals.
2.3.4.1	Time Zone	Synchronize the system time via SNMP
9		Time Zone is selectable.
		Support Daylights Saving
2.3.4.2	Package Capture	Capture file mode: Capture package and store in a file on the Access Point. The AP can transfer the file to TFTP server. Page 15 and 15
		 Remote capture mode: The captured packets are redirected in real time to an external PC running the Wire shark took.



2.3.4.2	Management ACL	Sets up to five IPv4 hosts and five IPv6 hosts that are	
1			authorized to access the Web-based AP management
			interface.

2.4 Mechanical Requirements

	Feature	Detailed Description
2.4.1	Length	6.30" [D] (160mm [D])
2.4.2	Width	6.30" [D] (160mm [D])
2.4.3	High	1.77" [H] (45 mm [H])
2.4.4	Weight	0.123 lb (272 g)

2.5 Reliability Requirement

#	Feature	Detailed Description			
2.5.1	MTBF	Mean Time Between Failure > 30,000 hours			
2.5.2	Maintainability	There is no scheduled preventive maintenance required			
2.5.3	Quality	• The product quality has to comply with D-Link Quality Control System			

2.6 Environment Requirement

	Feature	Detailed Description
2.6.1	Operating Temperature Conditions	• The product is capable of continuous reliable operation when operating in ambient temperature of 0 °C to +40°C.
2.6.2	Non-Operating Temperature Conditions	 Neither sub-assemblies is damaged nor the operational performance be degraded when restored to the operating temperature after exposing to storage temperature in the range of -20 °C to +65 °C.
2.6.3	Operating Humidity conditions	The product is capable of continuous reliable operation when subjected to relative humidity in the range of 10% and 90% non-condensing.
2.6.4	Non-Operating Humidity Conditions	 The product is not be damaged nor the performance be degraded after exposure to relative humidity ranging from 5% to 95% non-condensing

2.7 Compatibility Requirement

	Feature	Detailed Description
2.7.1	Wi-Fi	Conform with Wi-Fi/WMM certification 802.11b/g/n 802.11d & 11h



	Feature	Detailed Description			
		802.1x			
		802.11i, WPA, WPA2			
		■ Personal & Enterprise			
		Advanced Encryption Standard (AES)			
		Temporal Key Integrity Protocol (TKIP)			
		Quality of Service			
		■ WMM			
		■ WMM-Power Save			
		EAP			
		■ EAP-TLS			
		■ EAP-TTLS/MSCHAPv2			
		■ PEAPv0/MSCHAPv2			
		■ PEAPv1/EAP-GTC			
		■ EAP-SIM			
		■ EAP-FAST			
		■ EAP-AKA			
2.7.2	Physical	Pass D-Link Engineering Test Plan and Test Report			
	Layer and				
	Functionality				

2.8 Certifications/ Test Reports Requirement

EMC/RF Certificates and Test Reports

Request	EMI/EMC Test Report	Class A	Clas s B	Region & Country requirements
V	CE Report (89/336/EEC(EN55022/24), 2004/108/EC)		V	EU
V	FCC report(FCC CFR 47 Part 15 B)		V	US
V	IC report(ICES-003)		V	Canada
	IC report(ICES-006)			Canada
V	C-Tick Report(AS/NZS CISPR 22)			New Zealand & Australia
V	VCCI Report(CISPR 22)			JAPAN
	MIC report			KOREA
	Anatel			Brazil
V	BSMI (CNS 13438/ CNS 14336-1)			Taiwan
	CCC			China
	Other's			
Request	RF Test Report	Wire	eless	Region
				requirements
V	CE Report (R&TTE:1999/5/EC)		2.11 /g/n	EU
V	FCC report(FCC CFR 47, Part 15 C,E) for 2.4G	802		US /FCC ID



			(KA2XXXXX)
V	IC report (RSS-2106.2.2.o , 6.2.2.ql) for 2.4G	802.11	Canada /IC
		a/b/g/n	ID
			(4216AXXXX
)
V	C-Tick Report(AS/NZS4771,4268) for 2.4G	802.11	New Zealand
		a/b/g/n	& Australia
V	TELEC Report(STD-T66, 33 & STD-T71)		Japan
V	NCC(LP0002 3.10.1 , LP0002 4.7) for 2.4G	802.11	
	低功率射頻電機技術規範	a/b/g/n	Taiwan
	CE Report (EN 302 326)	802.16e	Europe/Mexic
		WiMAX	o/Chile
		3.5G	

Telecom Certificates and Test Reports

Request	Telecom. Test Report	Telecom (RJ-11 Port link to PSTN)	Region requirements
	CE Report (R&TTE:1999/5/EC) TBR-21		European union(EU)
	FCC Report (FCC CFR 47, Part 68)		US /FCC ID(3P7XXXXXX)
	IC Report (CS-03)		Canada /IC ID (4216AXXXX)
	A-Tick Report		New Zealand & Australia
	NCC(PSTN01) 公眾交換電話網路終端設備技術規範		Taiwan
	Anatel		Brazil
	BSMI		Taiwan
_	CCC		China
	Other's		

Safety Certificates and Test Reports

Request	Certifications	Standards	Region
•			requirements
V	CE LVD report (LVD:73/23/EEC)	EN60950-1: 2001	European
			Union
V	UL/cUL Listed Mark	UL/CSA 60950-1	US / Canada
		UL2043	
V		IEC60950-1	World
	CSA International Mark	UL60950-1	US
		CSA60950-1	Canada



		EN 60950-1	European
			Union
V	CB Report	IEC60950-1:	World
		2001	European
		EN60950-1 :2001	Union
	Other's requirements		

Reliability Test Reports

No.	Required	Test Items	Refer to Standards	
1.	V	MTBF of Prediction Report Bell-core TR-332, Is		
			Telcordia SR-332, Issue 1	
2.	V	MTBF of Endurance test Report	D-Link SPEC	
3.	Optional	MTBF of Demonstration test Report	D-Link SPEC	
4.	V	Free Fall(Drop)Test Report	IEC 60068-2-32	
5.	V	Random Vibration Test Report	IEC 60068-2-34: 1973	
6.	V	Storage Test Report	IEC 60068-2-48	
7.	V	Operation Cold(low temperature) Test	IEC 60068-2-1	
8.	V	Operation Dry Heat(High temperature) Test	IEC 60068-2-2	
9.	V	Operation Temperature Cycles Test	IEC 60068-2-14	
10.	V	Thermal Shock Test	IEC 60068-2-14	
11.	V	Damp Heat Steady State test	IEC 60068-2-78	
12.	V	Thermal Profile Test	D-Link SPEC	
13.	V	ESD Simulation Test report	IEC 61000-4-2	
			Air Discharge: ±8KV	
			Contact Discharge: ±4KV	
14.	V	High / Low Temperature Start Test	D-Link SPEC(0~50)	
15.	V	Parts on/off & Insert/pulling Test	D-Link SPEC	
16.	V	Acoustic Noise test	EN 27779 & ISO 7779	
17	V	Operating Temperature Conditions:		
		The product is capable of continuous		
		reliable operation when operating in		
		ambient temperature of $\underline{5}$ °C to $\underline{+45}$ °C.		
18	V	Halt/Hass test		

Please refer the detail in "D-Link Environment & Reliability General Specification" document.



RoHS Requirement

Level A of Substance limitation requirements table (for appliances & accessories)

Level	D-Link No.	Description		Limitation/ ppm
	A1	鎘及其化合 物	Cadmium/ Cadmium Compounds	80
	A2	ハ隕路及共 ル合物	Hexavalent Chromium/ Hexavalent Chromium Compounds	800
Α	А3	鉛及其化合 物	Lead/ Lead Compounds	800
	A4	汞及其化合 物	Mercury/ Mercury Compounds	800
	A5	聚溴聯苯	Polybrominated Biphenyls (PBBs)	800
	A6	聚溴聯苯醚	Polybrominated Diphenylethers (PBDEs)	800

Level A of Substance limitation requirements table (for Packing)

Level	D-Link No.	Description	Limitation/ ppm
Α	A1 ~ A4	鎘,六價鉻, Cadmium Chromium VI, 鉛,汞 Lead and Mercury compounds	100

Level A of Substance limitation requirements table (for battery)

Level	D-Link No.	Description L		Limitation/ ppm
	A1		Cadmium/ Cadmium Compounds(Cd)	2500 (0.025%)
A	А3	鉛及其化合物	Lead/ Lead Compounds(Pd)	400 (0.4%)
	A4	汞及其化合物	Mercury/ Mercury Compounds(Hg)	5

Please refer the detail in "產品環境物質管理規範" document.