

SCSI Inquiry Command

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The **SCSI Inquiry command** is used to obtain basic information from a target device.^[1] The CDB structure is:

bit→ ↓byte	7	6	5	4	3	2	1	0
0	Operation code = 12h							
1	LUN			Reserved				EVPD
2	Page code							
3	Allocation length (MSB)							
4	Allocation length (LSB)							
5	Control							

If the EVPD parameter bit is zero and the Page Code parameter byte is zero then the target will return the standard inquiry data, which is structured as follows:

bit → ↓byte	7	6	5	4	3	2	1	0
0	Peripheral qualifier			Peripheral device type				
1	RMB	Device-type modifier						
2	ISO version		ECMA version			ANSI-approved version		
3	AEC	TrmIOP	Reserved		Response data format			
4	Additional length (n-4)							
5	Reserved							
6	Reserved							
7	RelAdr	WBus32	WBus16	Sync	Linked	Reserved	CmdQue	SftRe
8–15	Vendor identification (ASCII)							
16–31	Product identification (ASCII)							
32–35	Product revision level							
36–55	Vendor-specific							
56–95	Reserved							
96	Vendor-specific parameters (variable number of bytes)							

The special fields in the standard inquiry data have the following meaning:

- **Peripheral Device Type** - see separate article on SCSI Peripheral Device Types
- **RMB** - removable medium
- **AENC** - 1 = supports Asynchronous Event Notifications - (processor devices only)
- **TrmIOP** - 1 = supports Terminate I/O Process messages
- **Response data format** - 000=SCSI compliant, other values = legacy devices

- **RelAdr** - 1 = this LUN supports Relative Addressing Mode (linked commands only)
- **WBus32+WBus16** - support for wide data buses:
 - 00 - 8-bit only
 - 01 - 8 or 16-bit
 - 11 - 8, 16 or 32 bit
- **Sync** - 1 = supports synchronous transfers
- **Linked** - 1 = this LUN supports linked commands
- **CmdQue** - 1 = supports Tagged Command Queuing
- **SftRe** - 1 = performs soft resets

If the EVPD parameter bit is one then the target will return Vital Product Data (VPD). This can be from one of a number of different pages, depending on the value of the Page Code parameter:

- 00h - Supported vital product data
- 01h-7Fh - ASCII information
- 80h - Unit serial number
- 81h - Implemented operating definitions (Obsolete)
- 82h - ASCII implemented operating definition (Obsolete)
- 83h - Device Identification
- 84h - Software Interface Identification
- 85h - Management Network Addresses
- 86h - Extended INQUIRY Data
- 87h - Mode Page Policy
- 88h - SCSI Ports
- 89h-AFh - Reserved
- B0h-BFh - Device type specific
- C0h-FFh - Vendor-specific

See also

- SCSI

- [^] Seagate Disc Drive SCSI-2/SCSI-3 Interface Manual, publication Number 77738479, Rev H

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Categories: SCSI

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