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4 January 1993

Mr. Lohmeyer,  
In December, two new development standards were approved by the Quarter Inch Cartridge (QIC) Technical Committee. These new standards accommodate the recording of 4 and 5 Gigabytes of data on a DC600 style data cartridge.

QIC has always strived to stay compatible with ANSI. To support these new formats, two new sequential device density codes are required. On behalf of QIC, I am requesting the allocation of two new density codes from those still available in the ANSI SCSI-3 specification. Can you please contact me with the name of the person I can talk to about this matter or to answer any question you have.

Thank You,



QIC-121 revision L (proposed), 24 November 1992

Table 9-22 Sequential-Access Density Codes

Code Value	Density							
00h	Default (target or peripheral device's default density)							
	Magnetic Tapes							
	Width		Density					
	mm (Inch)	Tracks	bpcm	bpi	Code	Type	Reference	
							Note	
01h	12.7 (0.5)	9	32	(800)	NRZI	R	X3.22-1983	2
02h	12.7 (0.5)	9	63	(1600)	PE	R	X3.39-1986	2
03h	12.7 (0.5)	9	246	(6250)	GCR	R	X3.54-1986	2
04h	6.3 (0.25)	4/9	315	(8000)	GCR	C	X3.136-1986	1,3
05h	6.3 (0.25)	4/9	315	(8000)	GCR	C	X3.136-1986	1
06h	12.7 (0.5)	9	126	(3200)	PE	R	X3.197-1987	2,4
07h	6.3 (0.25)	4	252	(6400)	IMFM	C	X3.116-1986	1
08h	3.81 (0.15)	4	315	(8000)	GCR	CS	X3.158-1987	1,4
09h	12.7 (0.5)	18	1491	(37871)	GCR	C	X385/87-099	2,4
0Ah	12.7 (0.5)	22	262	(6667)	MFM	C	X385/86-199	1,4
0Bh	6.3 (0.25)	4	63	(1600)	PE	C	X3.56-1986	1
0Ch	12.7 (0.5)	24	500	(12690)	GCR	C	HI-TC1	1,6
0Dh	12.7 (0.5)	24	999	(25380)	GCR	C	HI-TC2	1,6
0Eh	Reserved for ECMA							
0Fh	6.3 (0.25)	15	394	(10000)	GCR	C	QIC-120	1,6
10h	6.3 (0.25)	18	394	(10000)	GCR	C	QIC-150	1,6
11h	6.3 (0.25)	26	630	(16000)	GCR	C	QIC-320	1,6
12h	6.3 (0.25)	30	2034	(51667)	RLL	C	QIC-1350	1,6
13h	3.81 (0.15)	1	2400	(61000)	DDS	CS	X385/88-185A	5
14h	8.00 (0.315)	1	2126	(54000)		CS	X385/88-036	5
15h	6.3 (0.25)	30	1772	(45000)	GCR	C	QIC-1000	1,6
16h - 18h	Reserved for 8mm							
1Ch	6.3 (0.25)	34	1654	(42000)	MFM	C	QIC-385M	1,6
1Dh	6.3 (0.25)	32	1512	(67733)	GCR	C	QIC-410M	1,6
1Eh	6.3 (0.25)	30	630	(67733)	GCR	C	QIC-1000C	1,6
1Fh	6.3 (0.25)	30	2667	(67733)	RLL	C	QIC-2100C	1,6
20h	6.3 (0.25)	144	2667	(67733)	RLL	C	QIC-3GB(M)	1,6
21h	6.3 (0.25)	144	2667	(67733)	RLL	C	QIC-10GB(C)	1,6
22h	6.3 (0.25)	42	1600	(40640)	GCR	C	QIC-2GB(C)	1,6
23h	6.3 (0.25)	38	2667	(67733)	RLL	C	QIC-875M	1,6
	6.3 (0.25)	45	2667	(67733)	RLL	C	QIC-4GB(C)	1,6
	6.3 (0.25)	38	3780	(96000)	RLL	C	QIC-5GB(C)	1,6
24h - 7Eh	Reserved							
7Fh	No change from previous density (NO-OP)							
80h - FFh	Vendor unique							

3 NEW FORMATS

Key:

Code	Type
NRZI	R Reel-to-Reel
GCR	C Cartridge
PE	CS Cassette
IMFM	
MFM	
DDS	
RLL	

Non Return to Zero, change on ones  
 Group Code Recording  
 Phase Encoded  
 Inverted Modified Frequency Modulation  
 Modified Frequency Modulation  
 DAT Data Storage  
 Run Length Limited

NOTES:

- (1) Serial Recorded.
- (2) Parallel Recorded.
- (3) Old format known as QIC-11.
- (4) See Appendix D for additional standards information.
- (5) Helical Scan