

INDEX

- I*
- 1553 Bus Data Attributes 9-4, 9-5, 9-50, 9-51, 9-52
- 5
- 5/6 modulation code 6-1
- 8
- 8 to 5 conversion 6-54
- A*
- ADARIO 6-22, 6-32
- aggregate format 6-37
- alignment, direct electronics 6-29
- alignment, FM electronics 6-29
- allocation (of a frequency band) 2-1
- alternating tag and data 4-7
- analog channels 6-58, 6-61
- ARMOR 6-56, 6-57, 6-58, 6-59, 6-61, 6-62
- asynchronous data merge 4-11
- asynchronous embedded format 4-7
- attributes
- airborne hardware 9-4, 9-5, 9-71
 - data conversion 9-4, 9-5, 9-20, 9-39, 9-50, 9-60, 9-61
- authorization 2-1
- azimuth 6-43
- B*
- B format 6-40
- back coating 7-1
- band-limited audio 5-1
- bandwidths:occupied bandwidth 2-1
- base 7-1, 7-6
- basic dimension 6-1
- bias level 7-2, 7-8, 7-12
- bias recording 6-3
- bias signal, high frequency 6-1
- bi-directional 7-2
- binary bit representation 4-2
- binder 7-2, 7-7
- bi-phase 6-2
- bit error 6-2
- bit jitter 4-2
- bit numbering 4-4
- bit packing density, linear 6-2
- bit rate 4-2
- bit slip 6-2
- bit-oriented 4-1, 4-2
- blocking 7-2
- buffer overflow tag 8-3
- bus data military standard 4-7
- bus error 8-1
- bus identification tag 8-3
- bus loading 8-1
- bus monitor 8-1
- C*
- carrier suppression 2-7
- center frequency tolerance 2-4
- center tracks 7-2, 7-12
- channel bandwidth definitions 2-4
- channel characteristics 3-1, 3-5
- channel coding 6-59
- channelization 2-4
- channels:standard bandwidth channel 2-4
- channels:wide bandwidth channel 2-4
- class distinctions 4-1
- code frame 6-2
- code word digital sum 6-2
- continuous variable slope delta 5-1
- crossplay 6-2, 7-14
- crosstalk 6-2
- CVSD bit rate determination 5-3
- D*
- data azimuth (dynamic) 6-2
- data bits 4-11
- data blocks 6-48
- data bus 8-1
- data randomization 2-6
- data scatter 6-2
- data spacing 6-2, 6-16
- data storage 6-42
- data zone 6-46
- decoding technique 5-1
- defined parameters 6-36
- demultiplex 6-34
- demultiplexer/demodulator 9-20
- demux FILL requirement 6-37
- deviation direction 6-24
- differential encoding 2-5, 2-6
- digital cassette 6-40
- digital cassette helical scan 6-29
- digital data attributes 9-4, 9-25
- digital sum variation 6-2
- digitized audio 5-1
- dimensional specifications 7-6
- direct electronics 6-29
- direct record parameters 6-18
- direct recording 6-3, 6-18, 6-25
- double-density recording 6-3
- dropout 6-3, 7-2, 7-5, 7-9, 7-10, 7-12
- dual redundant data bus 8-1
- durability 7-10, 7-11, 7-12
- E*
- E format 6-40
- ECC 6-46, 6-48, 6-49, 6-50, 6-52, 6-54, 6-55

ECC code word 6-3
 edge margin..... 6-3
 edge margin minimum 6-3
 edge tracks 7-2, 7-12
 encoder output bit rate..... 5-2
 encoding technique 5-1
 environmental conditions 7-7
 erasure 7-2, 7-14
 error correcting code 6-3
 error correction..... 6-48
 E-Value 7-2
 exchange of data 6-50, 6-52

F

filemark track 6-44
 fixed formats 4-2
 flammable materials 7-5
 flutter..... 6-3
 flutter compensation..... 3-5, 3-7, 6-19
 flux transition..... 6-3
 flux transition density..... 6-3
 FM electronics 6-29
 FM record parameters 6-24
 FM record systems 6-22
 FM recording 6-3
 FM reproduce systems 6-24
 FM subcarrier..... 3-1, 3-5
 format change..... 4-6, 4-7
 format structure..... 6-35
 format structure change..... 4-7
 format types 6-40
 format validation..... 6-62
 format zone 6-46
 FQPSK-B 2-5, 2-6, 2-9, 9-12
 fragmented words..... 4-4
 frame format identification 4-7
 frame structure 4-4, 6-57
 frequency division multiplexing 3-1
 frequency tolerance 2-4, 2-9

G

gap azimuth..... 6-3, 6-5
 gap azimuth alignment 6-17
 gap length..... 6-4, 6-17
 gap parameters 6-17
 gap scatter 6-16
 gap scatter (record head)..... 6-4
 gap scatter (reproduce head) 6-4
 group relationships..... 9-5
 guard band..... 6-4, 6-40, 6-44

H

head (record or reproduce)..... 6-4
 head designation..... 6-4
 head identification..... 6-16
 head location 6-16
 head placement..... 6-16
 head polarity..... 6-17

head reference plane 6-4
 head segment 6-16, 6-17
 head segment gap azimuth..... 6-4, 6-5
 head segment location..... 6-16
 head segment numbering 6-5
 head segment, record or reproduce 6-4
 head spacing..... 6-5
 head tilt 6-5, 6-17
 heads, in-line..... 6-4
 heads, interlaced 6-5
 helical scan..... 6-40, 6-56, 7-14
 helical track..... 6-5, 6-42, 6-43, 6-47
 high density digital 7-10
 high order time..... 8-5, 8-6
 high resolution 7-1, 7-10
 high-density digital magnetic tape 7-2
 high-density digital recording 6-5
 high-energy magnetic tape..... 7-2
 high-resolution magnetic tape..... 7-3

I

implied parameters and limits..... 6-35
 input/output..... 6-32
 insertion process 4-11
 interference 2-1, 2-2, 2-5, 2-7, 2-8
 interference limits 2-7
 interleave buffer..... 6-50
 interleaving 6-5
 intermediate frequency bandwidths 2-10

L

L Band 2-2, 2-3
 layer-to-layer signal transfer..... 7-3, 7-11
 load point 6-46
 logical beginning of tape..... 6-46
 logical end of tape..... 6-46
 logical format..... 9-2
 longitudinal recording..... 6-7
 longitudinal tracks 6-44
 low order time..... 8-5, 8-6

M

magnetic oxide coating 7-3
 magnetic tape 6-18, 6-28, 7-2, 7-3, 7-14
 major frame..... 4-6
 manufacturer's centerline tape 7-3, 7-4
 manufacturer's secondary centerline tape..... 7-3, 7-4
 maximum burst length 8-1
 measurement list change 4-7
 mechanical parameters..... 6-16
 microsecond time..... 8-5, 8-6
 minor frame 4-4, 4-6
 minor frame composition..... 4-4
 minor frame length..... 4-4
 minor frame numbering 4-6
 minor frame synchronization 4-4
 miscellaneous information inclusion 6-54
 modulated transmitter bandwidth 2-8

modulation code..... 6-56
modulation noise.....7-3, 7-11, 7-12
modulation polarity..... 2-7
multiplex/demultiplex..... 6-32, 6-56
multiplex/modulation attributes ..9-4, 9-20, 9-21
multiplexer format..... 6-57

N

non-return-to-zero-level..... 6-5
non-operating environment..... 7-7

O

operating environment..... 7-7
operational flexibility..... 2-8, 2-10
organization..... 9-4
output power.....2-4, 2-5, 2-7

P

pacer divisor calculation..... 6-58
packaging..... 7-5
parallel channels..... 6-61
parity bit..... 4-11
PCM channels..... 6-58, 6-60
PCM codes..... 6-25
PCM data stream..... 9-25
PCM data word format..... 4-11
PCM format attributes 9-1, 9-4, 9-5, 9-25, 9-26, 9-27, 9-28, 9-42, 9-52
PCM measurement descriptions..... 9-4, 9-39
PCM recording..... 6-24
PCM signature..... 6-28
phase equalizer..... 6-28
physical dimensions..... 6-43
physical format..... 9-2
physical recording density..... 6-5
physical relationships..... 6-42
plasticizing..... 7-3
post-detection PCM recording..... 6-24
preamble recording..... 6-29
predetection.....6-20, 6-22, 6-24
primary data channel..... 6-37
primary service..... 2-2, 2-3
principal block..... 6-5, 6-6
print through..... 7-3
pulse code modulation..... 4-1, 6-22

Q

quadrature modulator.....2-6

R

radial clearance..... 7-5
radio frequency..... 2-1, 2-7
radio frequency standards for telemetry..... 2-1
receiver phase noise..... 2-9
receiver systems..... 2-1, 2-9
record bandwidths..... 6-7
record level.....7-3, 7-8, 7-12
record level set frequency..... 6-6

recorder alignment.....6-29
recorder/reproducer input and output.....6-30
recording density.....6-44
recording geometry.....6-43
recording standards.....6-29
reel characteristics..... 6-18, 6-22
reels and hubs.....7-5
reference tape edge.....6-6
reference tape system.....7-4
reference track location.....6-6
reproduce bandwidths.....6-7
reproduce parameters..... 6-19, 6-22, 6-28
reproduce-head segment.....6-17
RF bandwidth definitions:standard bandwidth
 signal.....2-4
RF bandwidth definitions:wide bandwidth signal
 2-4

S

S Band..... 2-2, 2-3
scanner.....6-6
scatterwind..... 7-3, 7-8
secondary service..... 2-2, 2-3
serial bit stream transitions.....4-2
serial high-density digital recording.....6-25
servo track.....6-44
setup block format.....6-56
shedding.....7-3
short wavelength output uniformity..... 7-4, 7-9
signal source.....5-1
source signal.....8-2
speed control and compensation.....6-24
spurious emissions..... 2-7, 2-9
spurious responses.....2-10
stale data bit.....4-12
standard record level.....6-6
subcommutation.....4-6
subframe.....4-6
subframe synchronization.....4-6
submultiplex.....6-34
submux FILL requirement.....6-37
supercommutation.....4-6
sync pattern..... 6-48, 6-59
system emissions.....2-8

T

tagged data format.....4-7
tape and cassettes.....6-30
tape cartridge..... 6-40, 6-46
tape copying.....6-28
tape format.....6-7
tape guidance.....6-18
tape guiding.....6-18
tape reference edge.....6-43
tape signature recording.....6-20
tape skew.....6-6
tape source attributes . 9-4, 9-5, 9-15, 9-16, 9-17

tape speed 6-6, 6-8, 6-19, 6-21, 6-22, 6-23, 6-25,
 6-26, 6-42, 6-44, 6-46
 tape speed control..... 3-5
 tape speeds 6-7, 6-22
 tape storing conditions 7-7
 tape width..... 6-7, 6-18
 telemetry attributes..... 9-1, 9-3, 9-4, 9-71
 time code channels..... 6-59
 time tag 6-36, 6-38
 time words..... 4-8, 8-5, 8-6, 8-8
 timing signal recording 6-20
 TMATS 9-1, 9-2, 9-3, 9-6, 9-8, 9-71
 toxic compounds 7-5
 track angle..... 6-6, 6-44
 track data azimuth difference 6-5
 track format..... 6-30
 track guard bands 6-44
 track length..... 6-44
 track location..... 6-6, 6-9, 6-10, 6-11
 track numbering 6-7, 6-16
 track pitch..... 6-43
 track spacing 6-7, 6-9, 6-10, 6-11
 track straightness..... 6-43
 track width 6-7, 6-9, 6-10, 6-11, 6-43
 transmission attributes 9-3, 9-5, 9-10, 9-11, 9-12
 transmission overhead..... 4-11
 transmitted frame counter 4-4
 transmitter phase noise..... 2-7

U

UHF bands 2-2, 2-4
 UHF telemetry receiver systems 2-9
 upper band edge 7-4, 7-8, 7-9
 upper S Band..... 2-2, 2-3

V

volume label..... 6-7

W

wavelength response 7-4, 7-8, 7-9, 7-12, 7-13
 winding 7-5
 word length 4-2
 word numbering 4-4
 word structure 5-2, 8-1, 8-2, 8-7
 word-oriented definitions 4-2
 working length 7-4
 working reference tape..... 7-4, 7-5

