Standard ECMA-319

June 2001

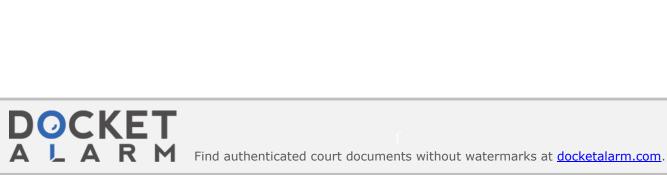


Standardizing Information and Communication Systems

Data Interchange on 12,7 mm 384-Track Magnetic Tape Cartridges – Ultrium-1 Format

> SONY Exhibit 1034 SONY v. FUJI IPR2018-00876





Standard ECMA-319

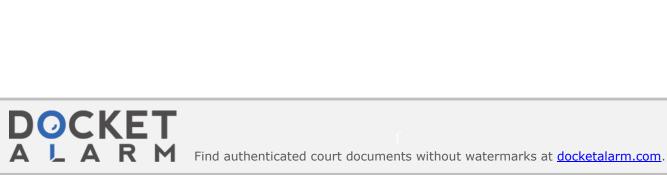
June 2001



Standardizing Information and Communication Systems

Data Interchange on 12,7 mm 384-Track Magnetic Tape Cartridges – Ultrium-1 Format





Brief History

Technical Committee ECMA TC17 has produced a series of ECMA Standards for magnetic tape cassettes and cartridges of different widths, e.g. 12,7 mm, 8 mm, 6,35 mm and 3,81 mm. In each series, the new standards correspond to specific types of application and different user requirements. Enhanced and new media correspond also to advancements in drive technology. The series of such cartridges with a magnetic tape of 12,7 mm width and longitudinally recorded tracks comprises the following standards.

ECMA-120 (1993): Data Interchange on 12,7 mm 18-Track Magnetic Tape Cartridges

ISO 9661

ECMA-152 (1993): Data Interchange on 12,7 mm 18-Track Magnetic Tape Cartridges - Extended Format

ISO/IEC 11559

ECMA-182 (1992): Data Interchange on 12,7 mm 48-Track Magnetic Tape Cartridges - DLT 1 Format -

ISO/IEC 13421

ECMA-196 (1993): Data Interchange on 12,7 mm 36-Track Magnetic Tape Cartridges

ISO/IEC 14251

ECMA-197 (1993): Data Interchange on 12,7 mm 112-Track Magnetic Tape Cartridges - DLT 2 Format -

ISO/IEC 13962

ECMA-209 (1994): Data Interchange on 12,7 mm 128-Track Magnetic Tape Cartridges - DLT 3 Format

ISO/IEC 14833

ECMA-231 (1995): Data Interchange on 12,7 mm 128-Track Magnetic Tape Cartridges - DLT 4 Format

ISO/IEC 15305

ECMA-258 (1997): Data Interchange on 12,7 mm 128-Track Magnetic Tape Cartridges - DLT 3-XT Format

ISO/IEC 15895

ECMA-259 (1997): Data Interchange on 12,7 mm 208-Track Magnetic Tape Cartridges - DLT 5 Format

ISO/IEC 15896

ECMA-278(1998): Data Interchange on 12,7 mm 128-track Magnetic Tape Cartridges

ISO/IEC 17913 Parallel Serpentine Format

ECMA-286 (1999): Data Interchange on 12,7 mm 208-Track Magnetic Tape Cartridges - DLT 6 Format

ISO/IEC 16382

ECMA-320 (2001): Data Interchange on 12,7 mm 448-Track Magnetic Tape Cartridges - SDLT1 Format

This ECMA Standard ECMA-319 describes a cartridge containing magnetic tape 12,65 mm wide and a recording format. This cartridge and format is the first in a family of linearly recorded 12,65 mm tape cartridges. Four types of cartridges are defined, containing tapes of different lengths.

The primary differences between this Standard and previous linearly recorded Standards are a greater number of recorded tracks, a higher linear recording density, and a timing based servo for improved track following. Together these provide the ability to achieve significant improvements in cartridge capacity. This format, when recorded on a 609-metre tape, will provide a storage capacity of 100 Gbytes of uncompressed user data, or typically 200 Gbytes of compressed user data.

All ECMA Standards listed above have been adopted by ISO/IEC as International Standards. The present ECMA Standard will also be contributed to ISO/IEC for adoption as an International Standard under the fast-track procedure.

This Standard has been adopted by the ECMA General Assembly of June 2001.



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

