

## ATOM 3

### Teletext encoder and inserter












The third generation of the Advanced Teletext Origination Module (ATOM) is a compact and powerful Teletext management and transmission system. The ATOM manages 16 teletext magazines (up to 8 on-air), and provides storage for a total of 70,000 pages, which can all be mapped for transmission as required.

Access to the ATOM is via a LAN connection.

















*Image for illustrative purposes only, actual chassis may vary*

### Key Features


-  Integrated Teletext encoder and broadcast-quality SDI inserter
-  Power fail by-pass relay
-  Windows XP Pro operating environment
-  100Mbit LAN interface
-  USB interface for system expansion
-  Optional support for multiple TV networks
-  Optional database mirroring with a second ATOM (for hot standby applications)
-  Optional Databridge input
-  Automation facilities
-  FASTEXT and TOP support
-  Engineering status page

### Functional Summary

-  Teletext output may be inserted on up to 16 VBI lines, using serial or parallel mode.
-  High-efficiency transmission, with redundant packets transmitted only when required to fulfil Teletext specification requirements.
-  Total capacity of 70,000 pages (including both on-air and non-transmitted pages).
-  Up to 16 editorial magazines, with on-air any time (8 per network in optional multiple network systems).
-  Rolling page sequences of any length up to a maximum number of transmittable pages.

-  FASTEXT and TOP support.
-  Packet 8/30 Format 1 support, with optional packet 8/30 Format 2 support for Programme Delivery Control (PDC).
-  Optional composite magazines, giving “virtual” transmission pages composed of pages from several other magazines.
-  Multiple language support.
-  Frequently-transmitted pages, in-sequence rolling-page durations and priority rolling page durations may be specified in increments of one second.
-  Optional interface for studio time reference.
-  Optional subtitle transmission – both pre-recorded and live subtitling feeds can be supported from suitable preparation or management systems.
-  Optional archiving of all pages placed on transmission.
-  Optional logging of all transactions for added system security.

## Editorial facilities

-  LAN access to the transmission sub-system permits interfacing to standalone Accent workstations and legacy Tapestry teletext management systems.

## TECHNICAL SPECIFICATIONS

Mechanical	
Case	2U high, 19-inch rack-mountable
Connections	1x SDI in (terminated) & 1x SDI out – BNC (75Ω) 1x Ethernet connection – RJ45 auto sensing TCP/IP based network interface
Video Signals	
Video input/output	Industry standard SDI digital video interface
Output data lines	7-22 and 320-335 inclusive for 625-line operation.
Miscellaneous	
Power requirements	110/230Vac 50/60 Hz (auto sensing)

## Associated products

Atom 3 is one of a family of Teletext products available from Starfish Technologies Ltd. Together these products can be configured to create a complete workflow solution. Please see [www.starfish.tv](http://www.starfish.tv) for more details.