



Universal Communications

- 3 Ports to Support All Games
 - USB 2.0 Full Speed (Future GSA Compliant, IGT Compliant)
 - RS232 Port (Backward Compatible)
 - NetPlex Port (Backward Compatible)

ITH® (Intelligent Ticket Handling)

- Makes Ticket Available ONLY after Fully Printed Internally & Automatically Burst

Large Paper Capacity

- 50% More Standard Ticket Capacity Saves \$200/Printer Annually

IntelligentBezel™ System

- Paper Jam Reduction via Blocked Bezel Detection

Award-Winning Printer

- Most Decorated Printer in Gaming

Superior Electro-Mechanical Design

- High Reliability and Easy Maintenance

ProColor™ Printing

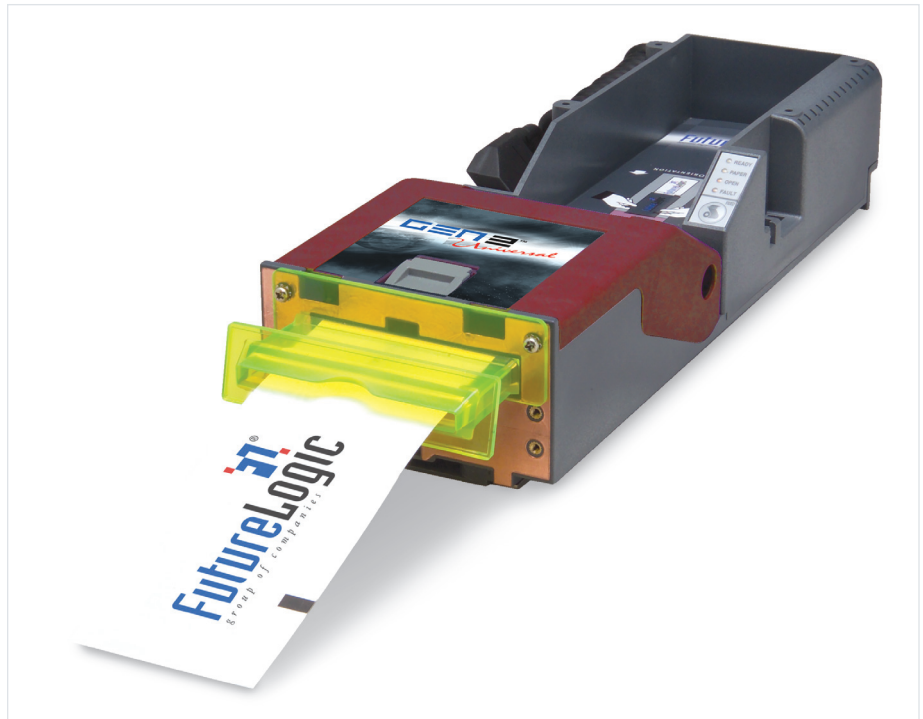
- Readily Available 2-Color Printing Technology

Expanded Graphics Memory

- Stores Hundreds of Clip Art Objects and Thousands of Graphic Templates

Hot Swappable

- Printer Removal Without Powering Down



The GEN2 Universal™ family of printers builds on the technology that has made FutureLogic the leading manufacturer of TITO ticket printers for cashless gaming. Developed with design feedback from global gaming OEMs and casinos, the GEN2 Universal printers are compatible with existing gaming platforms (RS232 and NetPlex) as well as the next generation of downloadable, server-based and USB games.

The GEN2 Universal printers anticipate new GSA standards for downloadable games, are IGT compliant and permit in-game firmware updates via the USB communications port. In addition to the interoperability and ease of integration

required for the next generation of electronic games, the GEN2 Universal printers offer compatibility with existing games on your floor, allowing you to specify a single printer for your entire property. And when combined with a proven track record of reliability, over one million (1,000,000) FutureLogic printers are helping operators maximize playtime and reduce operational costs worldwide.

General

Dimensions (WxDxH)	110mm x 304.8mm x 64.3mm
Weight	2.7 lbs.
Power Requirements	24Vdc @ 2.7A
Sensors	Paper Low, Paper Out, Printer Drawer Open, Ticket Taken, Ticket Jam, Ticket in Chute, Black Mark (Includes a Host Controllable Buzzer)
Printing Speed	90mm/Second (3.5"/Second)
Print and Present	2.2 Seconds
Printing Width	62mm (true near-edge printing)
Storage	300 Tickets
Ticket Tray Extenders	Interchangeable, 600, 900 Ticket Tray
Resolution	8 dots/mm (203 dpi)
Firmware	Application in Memory is Reprogrammable (via Flash BIOS)
Self Test	Yes
Page Mode	Full Page Mode Printing (Simultaneous 4 Orientation Printing: 0°, 90°, 180°, 270°), Line and Box Draw Printer Resident, Bitmap Graphics, Printer Resident (Stored in Flash) Graphics
Paper Loading	Manual
Paper Feed	Automatic
Media	Direct Thermal, Top Coated, Fanfolded and Perforated
Paper Specification	66mm W x 156mm L 4.5 mil, 1 Color/2 Colors
Bezel Control	Two High Current Ticket Printing Bezel Control Ports
User Interface	4 LED Indicators, Paper Advance Button
Upgrade Port	Allows for Printer Upgrades via USB Download Port or RS232C Main port
Hot Swappable	100%

Printing Resources

Template Capacity	8Mb; Stores hundreds of clip art objects & thousands of graphic templates
Graphic Storage	6Mb
Color Printing	Red on Black and Blue on Black are available. Other colors can be supported as the print media becomes available. Color selection is controlled through the TCL™ language.
Printer Languages	TCL Printer Language (Page Description Language) Subset of ESCP2
Fonts	8 (2.5 cpi, 3.3 cpi, 4.0 cpi, 5.5 cpi, 5.6 cpi, 7.3 cpi, 10.1 cpi, 20.5 cpi)
Font Scalability	May Be Independently Scaled from 1x – 7x in Both Height and Width
Bar codes	PDF-417, Interleaved 2 of 5, Code 39, UPC-A, UPC-E, UPC-E+2, UPC-E+5, Codabar, EAN-13, EAN-8, Code 128, MSI
Memory	2MB with 512K RAM

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Interface

Communications	USB 2.0 game interface (full speed of 12Mbps) with separate USB Download Port, Future GSA Compliant, Compliant with GSA GDS, IGT USB and traditional communication protocols RS232C and Netplex
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Environmental

Operating Temperature	5°C to 50°C
Storage Temperature	-20°C to 75°C
Operating Humidity	5 to 85% RH non-condensing

Reliability

Maintenance	Annual Print Head Cleaning Required
Print Head Life	50km Minimum (320,000 Tickets Based on US Currency Size)
Certifications	ISO 9001, CE Certified, RoHS, UL



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